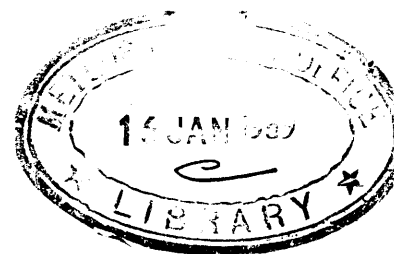


M.O.646

AIR MINISTRY
METEOROLOGICAL OFFICE



THE OBSERVATORIES' YEAR BOOK

1943

Comprising the meteorological and geophysical results
obtained from autographic records and eye observations
at the Lerwick, Aberdeen, Eskdalemuir, and Kew
Observatories

LONDON: HER MAJESTY'S STATIONERY OFFICE
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P R E F A C E

The *Observatories' Year Book* was published for the years 1922 to 1937 in continuation of Part III Section II and Part IV of the *British Meteorological and Magnetic Year Book* for the period 1908 to 1921.

Publication of the *Observatories' Year Book* was necessarily suspended during the 1939-45 war. Restrictions on supplies and printing since the war resulted in a regrettably long delay in the resumption of publication. In face of the formidable accumulation of arrears, and taking changed requirements into account, it was decided to adopt an abridged form as outlined below.

It was agreed that the General Introduction to the Meteorological Tables and the parts of the Sectional Introductions which deal with site, instruments, procedure and tabulation included in the volume for 1938 should serve as standards of reference for several years; and that only important departures from these standards, together with any requisite additional information, should be included in the relevant parts of the volumes for the years after 1938. The space devoted to the discussion of observations was reduced. Monthly tables of individual hourly values of meteorological elements were discontinued, but summaries of daily mean values (or totals), monthly means (or totals) of hourly values and some maximum and minimum values are given. The diary of cloud, weather and visibility was also discontinued. No major changes were made in the atmospheric electrical and magnetic tables. The aerological and seismological tables were discontinued after 1939.

The present volume, 1943, presents atmospheric electrical and geomagnetic data for Lerwick Observatory; meteorological data for Aberdeen; meteorological, atmospheric electrical and geomagnetic data for Eskdalemuir; meteorological, atmospheric electrical and atmospheric pollution data for Kew.

Meteorological and geomagnetic data for Valentia Observatory are no longer included in the *Observatories' Year Book*, but are published by the Dublin Department of Industry and Commerce Meteorological Service.

Manuscript tabulations of hourly values of the meteorological elements are available at the observatories. Request for information from these tabulations should be addressed to the Director-General, Meteorological Office, Air Ministry, Victory House, Kingsway, London, W.C. 2.

TABLE OF CONTENTS

	PAGE
Preface	iii
LERWICK OBSERVATORY	
Introduction	2
ATMOSPHERIC ELECTRICITY	
TABLE	
<i>Potential gradient</i>	
1 Daily values and monthly and annual means at 2-3h., 8-9h., 14-15h., 20-21h.	10
2 Diurnal inequalities (0a days only and 1a and 2a days only)	12
3 Electrical character of each day and approximate duration of negative potential gradient	13
TERRESTRIAL MAGNETISM	
4-51 Hourly values of horizontal force, declination and vertical force; hourly, daily and monthly means	14
Daily extremes and range; monthly means	15
Magnetic character figures; daily values and monthly means	15
Temperature in magnet house; daily observations and monthly means	15
52-54 Diurnal inequalities; horizontal force, declination and vertical force, monthly, annual and seasonal means for each hour	38
55 Diurnal inequalities; monthly, seasonal and annual range	41
56 Average departure from daily mean	41
57 Monthly, annual, and seasonal values of non-cyclic change of horizontal force, declination and vertical force	41
58 Mean monthly and annual values of magnetic elements	41
AURORA	
59 Auroral log	42
60 General auroral log	44
ABERDEEN OBSERVATORY	
Introduction	46
METEOROLOGY	
<i>Pressure</i>	
61 Daily, monthly and annual maximum, minimum and mean values at station level	48
62 Monthly and annual means of hourly values at station level	49
63 Monthly and annual means of hourly values at mean sea level	49
<i>Temperature</i>	
64 Monthly and annual means of hourly values	49
65 Daily, monthly and annual maximum, minimum and mean values	50
<i>Humidity</i>	
66 Daily and monthly means of relative humidity and vapour pressure	51
67 Monthly and annual means of hourly values of relative humidity	51
68 Monthly and annual means of hourly values of vapour pressure	51

ABERDEEN OBSERVATORY - *continued*

TABLE		PAGE
	<i>Rainfall</i>	
69	Daily and monthly values of amount, duration and maximum rate	52
70	Monthly and annual hourly totals of amount	53
71	Monthly and annual hourly totals of duration	53
72	Notes on rainfall for the year	53
	<i>Sunshine</i>	
73	Daily totals and monthly and annual means of duration with percentage of possible for each day	54
74	Monthly and annual hourly totals of duration	54
	<i>Wind</i>	
75	Daily mean and highest instantaneous speed	55
76	Monthly and annual means of hourly mean speed	55
77	Distribution of speed, extreme velocities	55
	<i>Ground temperature</i>	
78	Daily values and monthly and annual means at 9h. at depths of 30 cm. and 122 cm.	56
	<i>Minimum temperature on the grass</i>	
79	Daily values and monthly and annual means, 18h. to 7h.	56
	 ESKDALEMUIR OBSERVATORY	
	Introduction	58
	 METEOROLOGY	
	<i>Pressure</i>	
80	Daily, monthly and annual maximum, minimum and mean values at station level	69
81	Monthly and annual means of hourly values at station level	70
82	Monthly and annual means of hourly values at mean sea level	70
	<i>Temperature</i>	
83	Monthly and annual means of hourly values	70
84	Daily, monthly and annual maximum, minimum and mean values	71
	<i>Humidity</i>	
85	Daily and monthly means of relative humidity and vapour pressure	72
86	Monthly and annual means of hourly values of relative humidity	72
87	Monthly and annual means of hourly values of vapour pressure	72
	<i>Rainfall</i>	
88	Daily and monthly values of amount, duration and maximum rate	73
89	Monthly and annual hourly totals of amount	74
90	Monthly and annual hourly totals of duration	74
91	Notes on rainfall for the year	74
	<i>Sunshine</i>	
92	Daily totals and monthly and annual means of duration with percentage of possible for each day	75
93	Monthly and annual hourly totals of duration	75
	<i>Wind</i>	
94	Daily mean and highest instantaneous speed	76
95	Monthly and annual means of hourly mean speed	76
96	Distribution of speed, extreme velocities	76

ESKDALEMUIR OBSERVATORY- *continued*

TABLE		PAGE
	<i>Ground temperature</i>	
97	Daily values and monthly and annual means at 9h. at depths of 30 cm. and 122 cm. ..	77
	<i>Minimum temperature on the grass</i>	
98	Daily values and monthly and annual means, 18h. to 7h.	77
ATMOSPHERIC ELECTRICITY		
	<i>Potential gradient</i>	
99	Daily values and monthly and annual means at 2-3h., 8-9h., 14-15h., 20-21h.	78
100	Diurnal inequalities (0a days only and 1a and 2a days only)	80
101	Electrical character of each day and approximate duration of negative potential gradient	81
TERRESTRIAL MAGNETISM		
102-149	Hourly values of horizontal component, declination and vertical component; hourly daily and monthly means	82
	Daily extremes and range; monthly means	83
	Magnetic character figures; daily values and monthly means	83
	Temperature in magnet house; daily values and monthly means	83
150-155	Diurnal inequalities; north, west and vertical components, declination, inclination and horizontal components, monthly, seasonal and annual means for each hour	106
156	Diurnal inequalities; monthly, seasonal and annual range	112
157	Monthly, annual and seasonal values of non-cyclic change of horizontal force, declination and vertical force	112
158	Mean monthly and annual values of magnetic elements	112
159-160	Harmonic components of the diurnal inequality of magnetic force	113
KEW OBSERVATORY		
	Introduction	116
METEOROLOGY		
	<i>Pressure</i>	
161	Daily, monthly and annual maximum, minimum and mean values at station level	120
162	Monthly and annual means of hourly values at station level	121
163	Monthly and annual means of hourly values at mean sea level	121
	<i>Temperature</i>	
164	Monthly and annual means of hourly values	121
165	Daily, monthly and annual maximum, minimum and mean values	122
	<i>Humidity</i>	
166	Daily and monthly means of relative humidity and vapour pressure	123
167	Monthly and annual means of hourly values of relative humidity	123
168	Monthly and annual means of hourly values of vapour pressure	123
	<i>Rainfall</i>	
169	Daily and monthly values of amount, duration and maximum rate	124
170	Monthly and annual hourly totals of amount	125
171	Monthly and annual hourly totals of duration	125
172	Notes on rainfall for the year	125

TABLE OF CONTENTS

KEW OBSERVATORY- *continued*

TABLE		PAGE
	<i>Sunshine and solar radiation</i>	
173	Daily totals and monthly and annual means of duration of bright sunshine with percentage of possible for each day	126
	Daily totals and monthly and annual means of totals solar radiation	126
174	Monthly and annual hourly totals of duration of bright sunshine	127
175	Monthly and annual hourly totals of solar radiation	127
	<i>Wind</i>	
176	Daily mean and highest instantaneous speed	128
177	Monthly and annual means of hourly mean speed	128
178	Distribution of speed, extreme velocities	128
	<i>Ground temperature</i>	
179	Daily values and monthly and annual means at 9h. at depths of 30 cm. and 122 cm. ..	129
	<i>Minimum temperature on the grass</i>	
180	Daily values and monthly and annual means, 18h. to 7h.	129
	ATMOSPHERIC ELECTRICITY	
181	Daily values and monthly and annual means of conductivity, air-earth current of ionic charges	130
182	Electric character of each day and approximate duration of negative potential gradient	131
	<i>Potential gradient</i>	
183	Daily values and monthly and annual means at 2-3h., 8-9h., 14-15h., 20-21h.	132
184	Diurnal inequalities (selected quiet days)	134
	ATMOSPHERIC POLLUTION	
185	Monthly, seasonal and annual means for each hour	134

LERWICK

LERWICK OBSERVATORY

Latitude $60^{\circ}08'N$.
Longitude $1^{\circ}11'W$.
G.M.T. of Local Mean Noon 12h. 5m.
Height of site above M.S.L. 80 to 90 metres

INTRODUCTION

Full details of the site, instruments, procedure and tabulation are given in the *Observatories Year Book* for 1938. Change and additions only are mentioned here.

ATMOSPHERIC ELECTRICITY

No changes were made in 1943.

TERRESTRIAL MAGNETISM

The average day-to-day change of temperature in the magnetograph house for each of the twelve months of 1943 and for the year as a whole was as follows (in degrees Absolute):-

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
0.37	0.38	0.29	0.37	0.35	0.28	0.27	0.30	0.34	0.26	0.48	0.33	0.31

There were 13 occasions on which the change reached or exceeded $1^{\circ}A$.

As already stated in the 1938 Year Book a Smith portable coil magnetometer, which had been reconstructed to operate as a Schuster-Smith coil magnetometer, was brought into use and adopted as the standard instrument for horizontal force in October 1939.

The volume for 1938 contains a statement on the corrections arising from the instrumental changes and comparisons, to be applied to the values of H, D and V published for the years 1923-1938. Corresponding corrections have not been applied to the individual values in the four tables for each month given in this volume (1943) but are shown in the tables and repeated below. The values of the elements given in Table 58 and elsewhere in the volume have been corrected.

Corrections

H -6 γ throughout
D -4.2' throughout
V varies from month to month as below

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
-6 γ	-4 γ	-1 γ	0	+1 γ	+2 γ	+3 γ	+2 γ	0	+1 γ	0	-1 γ

NOTES ON THE RESULTS

The factor to change variations of D expressed in minutes to units of force (γ) perpendicular to the magnetic meridian was approximately 4.18.

Comparing the mean values for all days of 1943 with those for 1942 it is noted that H decreased by 8 γ , D (West) decreased by 10' and V increased by 20 γ . The ranges between the extreme values recorded during 1943 were H, 2250 γ ; D, $4^{\circ}17.1'$; V, 1032 γ .

At the assembly of the International Association of Terrestrial Magnetism and Electricity at Washington in September 1939, a new measure of magnetic disturbance, the K index, was agreed upon. Measurements of K are now given in this volume, replacing the former measure $(HR_H + VR_V)10^{-4}$, in accordance with the International Association of Terrestrial Magnetism and Electricity circular letter dated January 20, 1940.

The K index is fully described in *Terrestrial Magnetism and Atmospheric Electricity*, Baltimore Md, 44, 1939, p.411. Briefly, a figure is allotted, on a scale 0-9, to each 3-hour interval. The figure is a measure of the range of magnetic force during that period, measured from a curved line which represents the normal quiet-day variation. The figures are first allotted from the H magnetogram, and then increased, if necessary, by inspection of the D and V curves, so that the most disturbed component determines the final figure.

The scale of ranges in γ corresponding to the figures 0-9 varies from observatory to observatory. The lower limit of each number for Lerwick is

K	0	1	2	3	4	5	6	7	8	9
Range in γ	0	10	20	40	80	140	240	400	660	1000

Table I has been slightly changed in form from previous years owing to the omission of $(HR_H + VR_V)10^{-4}$. K figures, and their sums, have been given for each day in the main tables, but as it is considered that monthly means of K figures are not a good measure of activity, they are not included. Tables II, III, IV and V follow the pattern of previous years.

TABLE I

	Magnetic character figures			Mean character figures	
	0 days	1 days	2 days	Lerwick	Inter- national
January	19	11	1	0.42	0.50
February	15	13	0	0.46	0.49
March	11	16	4	0.77	0.64
April	11	17	2	0.70	0.59
May	10	19	2	0.74	0.63
June	13	17	0	0.57	0.62
July	13	17	1	0.61	0.66
August	6	21	4	0.94	1.01
September	8	21	1	0.77	0.86
October	11	18	2	0.71	0.84
November	12	16	2	0.67	0.77
December	16	13	2	0.55	0.59
Year					
1943	145	199	21	0.66	0.68
1942	146	194	25	0.67	0.64
1941	172	169	24	0.60	0.73
1940	178	162	26	0.59	0.72
1939	186	143	36	0.59	0.77
1938	180	133	52	0.65	0.76
1937	119	197	49	0.81	0.73
1936	133	206	27	0.71	0.65
1935	100	245	20	0.78	0.67
1934	168	173	24	0.61	0.56
1933	157	169	39	0.59	0.64

TABLE II - ABSOLUTE DAILY RANGE AND MEAN MONTHLY VALUES

	Mean absolute daily range						Mean daily range expressed as percentage of yearly mean					
	1943			Mean 1932-42			1943			Mean 1932-42		
	H	D	V	H	D	V	H	D	V	H	D	V
	γ	γ	γ	γ	γ	γ	%	%	%	%	%	%
January	92	94	97	94	96	96	58	80	64	65	92	80
February	70	84	75	110	106	114	44	71	50	76	102	95
March	135	112	130	196	138	165	85	95	86	136	133	137
April	161	105	144	206	123	160	102	89	95	143	118	133
May	164	102	140	181	103	129	104	86	93	126	99	107
June	127	84	107	135	88	100	80	71	71	94	84	83
July	134	94	120	153	90	107	85	80	79	106	86	89
August	378	197	273	151	98	108	239	167	181	105	94	90
September	216	145	220	159	114	138	137	123	146	111	110	115
October	186	146	211	160	119	141	118	124	140	111	114	117
November	157	142	171	93	92	99	99	120	113	65	88	82
December	79	115	121	85	87	88	50	97	80	59	84	73
Winter	99	109	116	96	95	100	63	92	77	67	91	83
Equinox	175	127	176	180	124	151	111	108	117	125	119	126
Summer	201	119	160	155	95	111	127	101	106	108	91	92
Year	158	118	151	144	104	120	..	..	..	..	..	..

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

TABLE III - FREQUENCY DISTRIBUTION OF ABSOLUTE DAILY RANGE

Range	Number of cases, 1943			Percentage distribution					
	H	D	V	H		D		V	
				1943	1932-42	1943	1932-42	1943	1932-42
γ				%	%	%	%	%	%
0 - 9	0	0	0	0.0	0.0	0.0	0.0	0.0	0.5
10 - 19	2	0	17	0.5	1.8	0.0	0.5	4.7	8.2
20 - 29	18	9	33	4.9	5.2	2.5	2.6	9.0	12.2
30 - 39	27	8	23	7.4	7.4	2.2	4.8	6.3	9.9
40 - 49	29	17	17	7.9	7.7	4.7	8.6	4.7	7.4
50 - 59	33	43	26	9.0	10.3	11.8	11.3	7.1	6.0
60 - 69	28	45	24	7.7	10.2	12.3	13.9	6.6	5.2
70 - 79	24	32	12	6.6	9.7	8.8	9.8	3.3	4.8
80 - 89	18	31	16	4.9	7.8	8.5	9.2	4.4	3.8
90 - 99	15	23	12	4.1	5.6	6.3	6.5	3.3	3.3
100 - 109	14	18	9	3.8	4.1	4.9	4.8	2.5	3.6
110 - 119	7	13	8	1.9	2.9	3.6	3.6	2.2	2.7
120 - 129	11	15	7	3.0	2.6	4.1	3.4	1.9	2.5
130 - 139	8	11	14	2.2	1.7	3.0	3.3	3.8	2.2
140 - 149	14	6	7	3.8	2.1	1.6	3.0	1.9	2.2
150 - 159	6	9	7	1.6	1.3	2.5	1.6	1.9	1.9
160 - 169	5	10	9	1.4	1.5	2.7	1.5	2.5	1.8
170 - 179	8	5	7	2.2	1.0	1.4	1.4	1.9	1.1
180 - 189	6	8	6	1.6	0.9	2.2	1.2	1.6	1.5
190 - 199	3	9	6	0.8	1.0	2.5	0.9	1.6	1.5
200 +	89	53	105	24.4	15.2	14.5	8.0	28.8	17.8
Days omitted	0	0	0	..	..	..	..	..	..

TABLE IV - AVERAGE RANGE OF DIURNAL INEQUALITY 1932-42
WITH 1943 AS PERCENTAGE OF THIS

		All days			International quiet days			International disturbed days		
		V	H	D	V	H	D	V	H	D
Year		γ	γ	γ	γ	γ	γ	γ	γ	γ
	1932-42	47.5	46.7	9.04	9.3	36.5	8.30	118.9	117.1	13.55
	1943(%)	143	89	93	146	82	91	125	83	83
Winter	1932-42	38.0	23.4	7.60	7.3	14.7	4.32	110.2	79.3	12.83
	1943(%)	122	63	106	136	76	116	111	73	107
Equinox	1932-42	60.0	54.3	10.60	11.6	41.4	9.25	150.3	167.2	18.61
	1943(%)	142	85	94	173	91	91	127	74	72
Summer	1932-42	47.6	69.7	12.38	15.6	55.8	12.14	124.3	140.3	14.59
	1943(%)	158	98	81	104	86	92	137	125	85

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

TABLE V - RATIO OF RANGE OF INEQUALITY AT LERWICK TO THAT AT ESKDALEMUIR 1943

Type of day	Ele- ment	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
q	D	1.15	1.22	1.13	1.04	1.15	1.10	1.16	1.21	1.18	1.04	1.14	1.25
d	D	1.23	1.41	1.19	1.34	1.33	1.25	1.08	0.96	1.05	1.15	1.19	1.34
q	H	1.00	0.91	0.97	1.07	1.13	1.13	1.26	1.08	1.01	1.12	0.83	0.87
d	H	2.41	1.71	1.91	2.49	2.57	1.42	1.28	4.34	1.89	1.60	1.83	0.91
q	V	1.25	1.46	1.02	0.72	0.90	0.74	0.83	2.37	2.73	1.07	1.80	1.49
d	V	2.54	2.13	1.94	2.06	2.05	2.11	2.18	1.38	1.90	2.07	2.34	2.23

Magnetic disturbances.—Particulars of the principal magnetic disturbances recorded at Lerwick during the year are given in Table VI. In the Eskdalemuir Section will be found a similar list which deals with the same disturbances as recorded at that Observatory. Within the limit of accuracy of measurement and registration "sudden commencements" appear to occur simultaneously at the two Observatories.

TABLE VI - PRINCIPAL MAGNETIC DISTURBANCES RECORDED AT LERWICK, 1943

No.	From	To	Horizontal force					Declination					Vertical force				
			Max.	Time	Min.	Time	Range	Max.	Time	Min.	Time	Range	Max.	Time	Min.	Time	Range
	d. h. m.	d. h.	γ	d. h. m.	γ	d. h. m.	γ	'	d. h. m.	'	d. h. m.	'	γ	d. h. m.	γ	d. h. m.	γ
1	Jan. 4 7	Jan. 5 4	481	4 17 22	245	5 1 46	236	71.2	4 16 29	12.2	4 17 43	59.0	1135	4 17 15	815	5 2 43	320
2	Jan. 20 8	Jan. 23 3	777	20 18 25	11	20 21 45	766	77.8	20 20 28	-32.9	21 21 14	110.7	1152	20 18 16	698	20 21 19	454
3	Feb. 16 17	Feb. 18 5	455	17 20 42	279	17 11 4	176	67.8	17 4 4	20.5	17 20 35	47.3	1043	17 11 25	820	17 21 10	223
4	Mar. 15 1	Mar. 17 2	412	16 5 10	263	17 0 8	149	60.1	16 13 56	13.8	16 20 30	46.3	974	16 10 34	744	17 0 3	230
5	Mar. 19 6	Mar. 21 3	427	20 18 25	317	20 9 15	110	59.9	20 13 50	-7.4	20 18 36	67.3	1046	20 18 25	873	19 21 2	173
6	Mar. 22 14	Mar. 24 2	414	22 15 7	67	23 1 29	347	57.6	22 15 25	12.4	23 2 19	45.2	979	22 16 33	539	23 1 28	440
7	Mar. 29 9	Mar. 30 9	484	29 18 42	-366	29 21 56	850	63.9	29 16 4	-11.3	29 21 59	75.2	1041	29 20 13	647	29 23 59	394
8	Apr. 2 21	Apr. 7 7	657	5 16 40	-86	3 1 39	743	77.6	4 19 11	14.6	3 3 9	63.0	1070	5 16 38	649	3 1 4	421
9	Apr. 9 22	Apr. 12 2	506	10 19 41	-38	11 2 16	544	62.0	11 4 27	13.6	11 0 27	48.4	1051	10 19 34	584	11 4 37	467
10	Apr. 20 4	Apr. 21 22	438	21 0 30	273	21 2 5	165	61.4	21 13 18	27.3	21 19 26	34.1	990	21 19 24	724	21 2 17	266
11	Apr. 25 15	Apr. 27 4	444	26 17 29	40	26 2 35	404	55.1	26 12 10	-5.7	26 1 54	60.8	1003	26 18 3	610	26 3 6	393
12	Apr. 29 20	May 4 3	526	1 17 35	40	2 0 1	486	67.8	1 6 48	21.5	3 23 2	46.3	1025	1 17 34	620	1 23 39	405
13	May 14 21	May 19 9	526	17 20 42	120	18 2 45	406	65.9	17 21 51	18.3	18 2 17	47.6	992	17 17 45	637	15 2 49	355
14	May 23 10	May 26 5	488	24 16 35	-138	24 2 14	626	61.0	24 19 57	-1.6	24 2 17	62.6	1019	24 17 16	610	24 2 11	409
15	June 19 9	June 25 3	518	24 16 58	151	20 18 36	367	61.0	19 23 55	17.0	20 1 40	44.0	1002	21 17 36	648	20 1 42	354
16	July 4 9	July 7 8	542	5 17 21	-25	5 1 37	567	66.7	6 2 26	12.0	5 22 35	54.7	1054	4 17 13	672	5 2 6	382
17	July 7 21	July 14 2	536	9 18 19	219	9 7 49	317	58.6	9 7 22	23.7	9 18 9	34.9	1003	10 14 25	733	10 3 46	270
18*	July 29 23 9	Aug. 6 7	518	1 18 3	72	3 0 52	446	60.8	5 2 5	22.0	31 21 26	38.8	1032	2 18 16	727	3 1 5	305
19	Aug. 8 0	Aug. 10 7	1161	8 15 21	-1089	9 0 4	2250	95.6	8 18 9	-122.0	9 0 2	217.6	1434	9 0 10	471	9 0 0	963
20	Aug. 12 20	Aug. 13 20	516	14 19 59	162	14 0 22	354	64.0	13 13 5	6.1	13 21 40	57.9	1035	13 13 32	700	13 21 14	335
21	Aug. 19 5	Aug. 21 15	471	19 15 21	222	20 0 0	249	63.2	20 0 47	9.8	19 20 20	53.4	1039	19 14 17	624	20 0 39	415
22	Aug. 28 10	Sept. 6 3	882	31 12 54	-891	31 4 37	1773	135.1	31 4 42	-56.4	31 0 40	191.5	1229	31 13 47	402	31 2 11	827
23	Sept. 8 5	Sept. 15 1	563	8 17 56	-57	9 0 50	620	65.1	9 21 14	3.9	8 21 33	61.2	1060	8 18 7	628	10 1 8	432
24	Sept. 26 4	Oct. 5 5	556	29 17 55	12	30 22 59	544	66.8	28 0 50	-3.7	2 18 20	70.5	1166	29 12 19	619	28 0 29	547
25	Oct. 7 1	Oct. 10 20	488	9 16 56	226	8 23 28	262	60.6	9 8 6	-3.8	10 16 36	64.4	1055	10 16 33	760	9 20 46	295
26	Oct. 23 21	Nov. 2 2	575	26 14 1	60	25 1 39	515	65.8	1 3 47	-5.3	29 18 48	71.1	1145	26 14 3	667	28 2 38	478
27	Nov. 6 10	Nov. 8 2	682	6 17 23	288	6 20 17	394	60.3	6 22 42	-28.3	6 17 45	88.6	1139	6 17 21	787	6 22 48	352
28	Nov. 19 2	Nov. 30 2	672	23 20 34	-168	23 21 43	840	76.0	26 20 40	-28.0	23 22 5	104.0	1161	26 15 14	563	23 21 58	598
29	Dec. 2 14	Dec. 5 22	478	2 19 40	320	5 4 49	158	54.2	2 15 51	1.1	2 19 56	53.1	1061	(2 19 44) (3 18 34)	829	4 0 11	232
30	Dec. 15 20	Dec. 23 2	529	16 14 36	177	20 0 55	352	61.3	16 14 36	-23.0	19 17 58	84.3	1120	16 14 30	737	21 23 19	383
31	Dec. 31 14	Jan. 1 3	442	31 22 35	320	31 23 58	122	57.6	31 16 12	2.1	31 22 58	55.5	1087	31 18 43	809	31 22 51	278

Where the beginning of a disturbance has been marked by a "sudden commencement", the serial number is followed by an asterisk(*), and the time entered in the second column is that of the "sudden commencement" estimated to the nearest minute. In other cases, the exact hour nearest the time at which disturbance may be regarded as having begun is entered in the second column. To the tabulated values of maximum and minimum the following have to be added: H, 14000 γ ; D, 11 $^{\circ}$; V, 46000 γ .

REMARKS ON THE AUTOGRAPHIC RECORDS 1943

The Lerwick mean character figure for the month is shown in brackets after the name of the month.

JANUARY (average character figure 0.42).- Following the calm spell noted at the end of December, January opened very quietly but a renewal of minor activity began on the evening of the 1st and lasted until midnight on the 6th. The period 4d.9h. to 5d.9h. being the most disturbed.

Apart from minor variations the period 7th-16th was quiet, but mild activity became evident on the evening of the 16th and continued until the onset of the largest storm of the month at 20d.15h. With the onset of this storm H quickly rose to peaks at 17h.38m. and 18h.25m., the latter constituting the maximum for the month of 14777 γ , and then executed an oscillatory plunge to the minimum for the month of 14011 γ at 21h.45m. V followed a similar course with a maximum of 47152 γ and minimum of 46698 γ occurring at 18h.16m. and 21h.19m. respectively. D fluctuated considerably and experienced a sharp minimum of 10 $^{\circ}$ 27.1' at 21h.45m. All three elements had largely recovered by 21d.5h. but minor activity continued until late on 24th, the main features of this period being small sudden onsets at 21d.21h.36m. and 22d.17h.16m. the former giving needle-like peaks on H and V with a sharp oscillation on D. Conditions during the remainder of the month were largely quiet with occasional evidence of mild disturbance.

FEBRUARY (average character figure 0.46). - From 1st to 15th of February there was some activity of a mild nature, most frequently about the period 18h.-24h., but conditions were mainly quiet. The 16th was the quietest day of the month but was followed by moderate activity commencing at 17d.4h. and largely subsiding by midnight, although minor disturbances continued to the night of 20th. Conditions remained quiet through the 21st but mild activity gradually reappeared in the ensuing days, gradually increased in vigour and culminated in the largest disturbance of the month between 25d.17h. and 26d.7h., when H first rose rapidly to a maximum of 14535 γ at 19h.46m., decreased in an oscillatory fashion to a minimum of 14190 γ at 23h.35m., and subsequently returned to normal by 26d.7h. via a secondary peak at 26d.2h.15m. V followed a similar type of path with a maximum of 47118 γ at 19h.50m. and minimum of 46758 γ at 2h.26m., but experienced no pronounced secondary maximum. Changes in D were more irregular, the most noticeable feature being a peak of 12° 6.0' at 26d.1h.51m. immediately followed by a trough with minimum of 11° 11.6' at 3h.4m. Moderate activity was again evident from late on 26th to early on 27th and mild activity continued until 28th which was quiet.

MARCH (average character figure 0.77). - March opened quietly, but slight activity was again evident late on 1st. Conditions continued in the main to be mildly disturbed chiefly between the hours of 18 and 3 with the 10th as the quietest day, until on the 11th activity increased to moderate in the late afternoon. This subsided again early on 13th and mild activity continued to 15th which was quiet. Moderate activity returned on 16th and moderate or minor activity continued to 21st. The chief feature of the period being a sharp well-marked trough in D to 10° 54.6' at 18h.36m., preceded by the maximum value of V for the month, 47046 γ in a peak at 18h.25m. The 21st was relatively quiet but vigorous activity returned late on 22nd, H forming two troughs over 300 γ deep at 22d.22h.0m. and 23d.1h.29m. and V forming troughs at 22d.22h.10m. and 23d.1h.28m., the latter reaching 46540 γ , the minimum for the month. The intensity of the disturbance rapidly decreased but minor activity continued until 25th. The period 25th-29th was characterised by only mild activity, the spell being broken by the largest disturbance of the month, a minor storm commencing about 29d.20h. The outstanding characteristic of this storm was a very deep trough in H in which the minimum for the month of 13634 γ occurred at 21h.56m. H for the remainder of the storm, and D and V for the whole of it were very irregular and oscillatory, but there was a well-marked trough in V centred at 21h.55m. All elements had largely recovered by 9h. on 30th and moderate disturbance continued to the end of the month.

APRIL (average character figure 0.70). - The month showed no major storms but several of a minor character.

The beginning of the month was only slightly disturbed till midnight on 2nd, when H and V began to develop troughs, which reached 13914 γ at 3d.1h.39m. and 46649 γ at 3d.1h.4m. respectively, while D showed less marked movement. The three traces continued to be moderately disturbed till 18h. on 4th when all made sharp oscillations of ranges 231 γ , 55.3' and 186 γ on H, D and V respectively, moderate disturbance then continuing. Humps on H and V reaching 13657 γ and 47070 γ with a trough to 11° 17.4' in D occurred between 16h. and 18h. on 5th, while night bays were still enlarged on 6th and 7th. Conditions became steadier thereafter and apart from occasional small variations and serrations continued quiet until 10th. Conditions then became disturbed again, H and V running into large irregular bays with trough values of 13962 γ at 11d.2h.16m. in H and 46584 γ at 11d.4h.37m. in V. The range of D was not unduly large and all traces slowly steadied till very early on 12th, when they became quiet abruptly and continued so until late on 15th. A moderate movement then set in with a period of serrations on all traces, most marked about 8h. on 16th. These continued at intervals in mildly disturbed conditions till 17th, when quiet conditions returned and reigned till 20th. Bays were enlarged on the night of 20-21st, but the disturbance soon settled and conditions continued quiet until 25th. A further disturbance then became evident and increased sharply during the late evening to reach small storm dimensions early on 26th, when large irregular bays formed with minimum values of H 13040 γ at 26d.2h.35m., D 10° 54.3' at 26d.1h.54m. and V 46610 γ at 26d.3h.6m. Conditions thereafter slowly quietened but remained slightly disturbed till the end of the month.

MAY (average character figure 0.74).— No major storms occurred but there were two minor disturbances, both associated with periods of mild irregularity.

The month opened with a minor storm on 1st. H had two minima, 14052 γ at 1d.21h.51m. and 14040 γ at 2d.0h.1m., while the V minimum was 46621 γ at 1d.23h.39m.; the D was somewhat less disturbed. The intensity of the disturbance rapidly decreased early on 2nd, but conditions remained mildly disturbed for several days, thereafter gradually diminishing but never becoming really quiet. These slightly disturbed conditions prevailed until 11th, when activity increased to mild intensity which then slowly increased, reaching moderate intensity by 18th, the major feature of this period being somewhat enlarged night bays in the early hours of 15th. Disturbance decreased steadily from 19th and quiet conditions prevailed till late on 23rd, when H and V reached minima of 13862 γ and 46610 γ at 24d.2h.14m. and 2h.11m. respectively, D reaching a minimum of 10° 58.4' at 2h.7m. and a maximum of 11° 49.3' at 2h.20m. Moderately disturbed conditions continued with enlarged irregular bays on the nights of 24-24th and 27-28th, the intensity gradually decreasing throughout the remainder of the month.

JUNE (average character figure 0.57).— The month showed no storms but had periods of moderate activity.

The month opened quietly and only mild activity was recorded in the first week. Disturbance increased on 7th to the moderate level and continued so to 15th, without any particularly marked features except rather deep night bays on 12-13th, H reaching 14204 γ at 13d.1h.56m., V 46673 γ at 2h.4m. and D forming a peak to 12° 9.7' at 1h.29m. Quiet conditions then prevailed until noon on 19th when fresh disturbance became evident. The night bays of 19-20th were enlarged and irregular, H and V reaching 13151 γ and 46648 γ respectively at 20d.1h.42m., while D rose sharply from 11° 17.2' at 1h.40m. to 11° 55.7' at 1h.45m. Moderate activity continued till 26th but then decreased. Mild disturbance recurred on 28th and 29th but 30th was quiet.

JULY (average character figure 0.61).— The moderate activity of last month continued.

The first two days were quiet but mild activity developed on 3rd and increased on 4th. H made a trough to 13975 γ at 5d.1h.37m. and V to 46672 γ at 5d.2h.6m. Moderate activity continued over 5th and 6th but decreased in vigour on 7th, although remaining mainly at moderate levels until the early hours of 14th, when conditions became suddenly quiet. Mild activity returned early on 15th and continued to 23rd before dying out. 24th and 25th were quiet. Mild disturbance then returned on 26th and 27th and periods of approximately 48 hours quiet and mildly disturbed conditions continued to alternate until the end of the month.

AUGUST (average character figure 0.94).— The month was appreciably more disturbed than July and contained two fairly large storms.

The month opened with mildly disturbed traces but activity soon increased and at 0h.52m. on 3rd a sharp trough to 14072 γ formed on H with a similar trough to 46727 γ on V 13 minutes later. Subsequently, moderate disturbance prevailed until midday on 8th, when a storm began and continued to mid-morning on 9th. The main feature was a single sinusoidal variation on all elements with very marked disturbance of shorter period superposed. H reached a maximum of 15161 γ at 15h.21m. and a minimum of 12911 γ at 9d.0h.4m. after a subsidiary minimum of 13356 γ at 8d.21h.15m. D formed a maximum of 12° 35.6' at 8d.18h.9m. and a minimum of 8° 58.0' at 9d.0h.2m. with numerous subsidiary minima. V reached a maximum of 47166 γ at 8d.15h.20m. and a minimum of 46472 γ at 9d.0h.0m., followed by a rapid rise in 10 minutes to a further maximum of 47434 γ . Traces quietened slowly and activity from 10th to 13th was mild. Further moderate disturbance then commenced and largely persisted to 21st. Following a short quiet spell, mild disturbance returned on 23rd to die out on 27th. Marked activity, however, began again shortly after noon on 28th and increased suddenly at 21h. to form a minor storm, H, D and V reaching minima of 14069 γ , 11° 5.5' and 46635 γ respectively. A further minor storm occurred on 29th with minima of 13913 γ and 46462 γ in H and V and a maximum of 12° 15.2' in D instead of a minimum.

Conditions then became progressively worse and a violent storm developed reaching its climax in the early hours of 31st, when large and rapid fluctuations dominated all elements. Absolute maxima for the storm were 14882γ , $13^{\circ} 15.1'$ and 47229γ with absolute minima of 13109γ , $10^{\circ} 3.6'$ and 46402γ respectively for H, D and V. Marked activity continued on a decreasing scale throughout 31st.

SEPTEMBER (average character figure 0.77).- The month generally was disturbed, although there were no notable storms.

Following the violent storm at the end of August, a high level of disturbance characterised the early days of the month. Quieter conditions were apparent on 5th while 6th and 7th were only mildly disturbed. Moderate activity returned quite sharply on 8th and prevailed until 16th, when only mildly disturbed conditions were restored. These lasted until 26th but then gave place to further moderate disturbance which continued to the end of the month, becoming increasingly active on 30th.

OCTOBER (average character figure 0.71).- Both the beginning and end of the month were disturbed although there were no notable storms.

The high level of disturbance on which September closed continued into October but again quieter conditions were apparent on 5th. Moderate activity returned on 8th but lasted only two days. There was mild disturbance from 10th to 13th, but this in turn gave way to almost quiet conditions which largely prevailed to 20th, when a sharp disturbance occurred about 18h. H rose 233γ in 5 minutes to a maximum of 14658γ at 18h.6m. and immediately fell by 267γ in 8 minutes. D formed a bay some $25'$ deep between 18h. and 19h., while V rose 137γ in 6 minutes to a maximum of 47146γ at 18h.6m. and immediately fell 236γ in 8 minutes to rise 80γ in the next 10 minutes. All traces then quietened down to record only mild disturbance which quickly gave place to quiet conditions on 21st. Disturbance reappeared in a mild form on 22nd, became increasingly active on 24th and continued on a high level to the end of the month, serrations being prominent in this period.

NOVEMBER (average character figure 0.67).- The month as a whole showed a continued tendency towards quieter conditions but contained one minor storm.

Moderate activity on 1st subsided quickly and, with the exception of the afternoon and evening of 6th which were moderately disturbed, quiet or only mildly disturbed conditions prevailed to 19th. Moderate disturbance with marked serrations then began and developed on 23rd into a minor storm in which H fell irregularly to 14157γ at 23d.20h.1m., rose to a maximum of 14672γ at 20h.34m. and fell to a minimum of 13832γ at 21h.43m. before recovering via a further minimum of 14122γ at 24d.1h.29m. D oscillated irregularly with ranges up to $55'$ and ultimately reached a minimum of $10^{\circ} 32.2'$ at 22h.5m. V carried out an oscillatory movement towards a minimum during which it fell 215γ in 2 minutes at 20h.35m. before reaching the minimum of 46563γ at 21h.58m. Activity subsequently continued on a high level for several days but showed a marked decrease on 28th and again on 30th, when almost quiet conditions were restored.

DECEMBER (average character figure 0.55).- The month showed a further definite decrease in activity.

The month opened quietly and with the exception of mild activity from 2nd to 6th, remained so till 16th. Moderate activity with periods of prominent serrations then developed and continued to 23rd, giving place to mild disturbance. This in turn gave place to virtually quiet conditions on 27th, which continued to the end of the month.

POTENTIAL GRADIENT (reduced to level surface)
Mean values for periods of sixty minutes between exact hours, G.M.T.

1 LERWICK

1943

	JANUARY, factor 1.28				FEBRUARY, factor 1.30				MARCH, factor 1.33			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	<i>volts per metre</i>											
1	52	90	389	781	148	335	204	76	63	-67	99	106
2	125	187	80	Z±	100	318	131	173	85	71	127	120
3	239	104	284	118	24	-121	-640	142	74	81	120	155
4	83	117	186	135	87	145	69	131	106	191	159	166
5	135	245	400	<-241	-232	107	<-17	239	50	0	142	-
6	79	-86	379	141	128	173	107	176	35	89	166	156
7	145	(241)	269	455	87	83	139	-35	138	152	142	212
8	72	292	-	144	-434	73	201	281	288	266	195	156
9	89	186	182	257	-753	104	101	232	78	209	103	39
10	86	58	69	86	73	115	-	-	71	71	7	167
11	110	130	158	99	153	-208	125	142	<-196	174	Z±	135
12	96	168	137	-62	Z-	Z±	-	-	121	185	424	178
13	58	89	141	247	-	-	-	-	143	>678	-89	Z±
14	240	Z±	185	295	-	-	-	157	Z±	<-179	168	189
15	151	240	171	183	278	Z±	282	212	165	61	147	165
16	137	175	189	38	80	175	84	188	132	129	179	680
17	281	<-223	<-1372	3	77	168	122	161	172	7	193	236
18	75	93	171	202	-	Z+	161	140	122	233	258	402
19	106	165	741	727	35	70	105	279	212	255	219	226
20	130	141	-343	<-631	73	73	137	105	205	197	86	165
21	175	237	278	165	109	87	147	133	226	194	273	309
22	-843	127	21	213	-189	119	105	207	219	255	287	230
23	193	165	275	378	105	73	143	112	209	241	209	288
24	76	134	155	227	Z±	Z±	35	144	144	155	169	454
25	196	<-1221	310	289	140	123	>439	95	248	428	184	302
26	210	Z±	206	124	67	-126	-144	158	130	119	32	<-18
27	107	141	151	-86	0	60	-14	137	158	209	292	-
28	307	183	245	759	84	123	176	116	223	-	104	40
29	317	173	231	214	-	-	-	-	87	159	-	137
30	248	241	-259	324	-	-	-	-	271	285	-	469
31	138	186	231	35	-	-	-	-	>668	199	<18	>812
(a)	149	166	231	255	97	133	151	164	167	189	167	248
(b)	97	146	208	245	-1	102	68	153	148	162	178	234
Mean	(a) 200		(b) 174		(a) 136		(b) 81		(a) 193		(b) 181	

	APRIL, factor 1.33				MAY, factor 1.33				JUNE, factor 1.32			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	<i>volts per metre</i>											
1	310	119	159	112	112	123	109	141	101	126	<-1221	337
2	47	123	61	162	246	119	214	-47	172	284	284	237
3	83	137	141	134	119	159	148	170	201	-162	223	61
4	137	105	126	108	72	65	116	232	79	111	104	169
5	83	-217	72	>578	94	87	145	98	147	136	118	115
6	32	0	108	87	91	170	188	195	97	115	107	211
7	Z±	152	166	173	105	119	145	138	129	140	218	254
8	112	0	83	144	94	130	152	112	175	372	43	247
9	79	-144	97	87	-14	-7	<-905	250	107	318	289	182
10	69	58	116	94	94	18	130	-5	114	54	114	150
11	72	101	116	156	-47	Z+	109	156	32	79	129	-
12	159	91	-340	-224	123	159	434	-	300	386	154	239
13	195	159	181	-14	83	123	282	271	139	199	139	185
14	72	130	91	134	91	322	127	134	78	150	185	125
15	11	152	Z±	177	58	101	101	134	96	128	139	214
16	123	101	109	58	116	79	137	119	142	110	89	78
17	116	145	<-36	177	87	148	72	101	107	75	114	153
18	87	29	54	36	141	195	184	162	117	92	99	373
19	>597	221	134	177	141	76	144	65	206	277	153	92
20	72	-11	141	25	<-253	213	159	574	277	206	522	522
21	112	159	308	424	321	141	177	152	298	174	149	114
22	362	261	-438	398	126	181	144	191	67	107	192	572
23	311	424	449	532	152	264	76	181	-376	334	128	504
24	145	<-1014	145	156	119	134	108	-	170	156	259	146
25	250	-221	217	-	-	-	151	155	309	28	71	209
26	80	-36	14	170	158	90	108	320	262	205	50	198
27	36	177	195	181	-248	176	320	126	85	106	113	177
28	-	76	119	145	68	104	86	122	170	191	74	244
29	134	145	152	170	86	194	119	180	170	127	244	248
30	109	87	206	177	126	122	97	-68	287	283	188	251
31	-	-	-	-	256	115	165	176	-	-	-	-
(a)	148	131	145	184	126	140	155	179	160	175	162	228
(b)	127	101	97	143	112	137	147	134	147	168	163	224
Mean	(a) 152		(b) 117		(a) 150		(b) 133		(a) 181		(b) 175	

The potential gradient is reckoned as positive if the potential increases upwards. For indeterminate potential gradient the following notation is used: Z+, indeterminate, positive value; Z-, indeterminate, negative value; Z±, indeterminate, in magnitude and sign.

(a) Mean of all positive readings.

(b) Mean from all complete days using both positive and negative readings.

POTENTIAL GRADIENT (reduced to level surface)
Mean values for periods of sixty minutes between exact hours, G.M.T.

11

1 LERWICK

1943

	JULY, factor 1.31				AUGUST, factor 1.32				SEPTEMBER, factor 1.31			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
					<i>volts per metre</i>							
1	209	262	248	273	132	150	82	765	111	57	255	241
2	280	166	163	145	182	142	149	235	126	436	637	187
3	142	127	<-549	78	125	154	129	196	144	133	148	263
4	173	166	152	145	129	154	182	243	320	151	230	155
5	78	81	142	159	232	211	157	146	151	126	144	414
6	103	-50	-287	258	168	171	154	129	486	227	313	281
7	145	-443	-	166	107	182	174	82	68	112	209	227
8	195	124	74	39	243	179	7	282	130	144	137	227
9	32	145	96	149	93	136	132	96	220	223	176	230
10	153	135	110	238	75	111	100	154	187	194	176	187
11	224	153	114	259	104	125	121	303	122	212	194	180
12	146	146	-	231	-	-	114	193	151	209	176	223
13	131	185	156	195	79	140	68	197	169	187	50	58
14	117	160	128	408	168	215	215	115	130	356	65	115
15	419	362	419	-405	89	111	93	211	76	144	187	324
16	-252	153	142	170	129	122	136	122	155	122	115	144
17	202	213	188	234	104	129	200	251	137	79	158	176
18	245	202	156	167	229	118	>609	179	104	151	187	202
19	146	149	149	238	132	154	344	362	130	122	65	-79
20	135	156	181	188	243	240	-422	426	241	173	86	140
21	78	185	149	163	366	291	388	495	-249	137	152	123
22	138	149	160	156	327	499	398	718	69	130	123	-
23	163	128	107	156	535	215	133	151	134	126	134	191
24	78	160	182	185	115	136	122	316	72	22	>541	>379
25	142	153	182	157	226	190	208	284	58	156	123	148
26	370	246	182	427	154	280	183	352	72	101	51	170
27	310	171	185	110	309	607	90	212	87	127	116	181
28	128	164	203	210	187	223	244	266	228	141	65	-98
29	178	182	128	142	201	169	592	212	44	149	94	178
30	128	125	167	324	269	162	169	140	131	134	-	134
31	167	-399	246	206	111	136	151	93				
(a)	172	170	167	199	185	195	195	256	147	159	176	203
(b)	160	144	151	182	184	198	162	260	138	166	165	177
Mean	(a) 177		(b) 159		(a) 207		(b) 201		(a) 171		(b) 161	

	OCTOBER, factor 1.25				NOVEMBER, factor 1.15				DECEMBER, factor 1.11			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
					<i>volts per metre</i>							
1	89	115	158	183	31	108	-108	184	72	114	169	117
2	107	-	-	158	205	239	160	49	174	168	174	42
3	61	-	168	168	7	118	173	152	39	54	-	123
4	-	-	-	-	72	110	197	124	51	33	54	93
5	147	118	-57	-82	-330	-681	34	131	66	84	123	102
6	50	86	50	97	193	55	117	131	111	90	96	78
7	89	82	111	89	106	144	209	213	39	233	230	81
8	79	146	143	243	120	157	267	157	92	167	352	253
9	154	132	318	386	136	113	31	239	63	137	182	104
10	336	218	368	289	89	85	99	55	101	80	104	140
11	103	246	263	-32	-31	0	187	<-89	39	86	119	146
12	7	71	135	64	89	141	510	206	131	172	264	211
13	7	157	128	217	116	104	122	58	149	199	193	199
14	231	217	234	433	-	77	98	119	112	98	184	118
15	249	192	380	177	15	43	31	147	56	86	186	148
16	142	195	202	249	88	119	137	95	95	-	302	201
17	156	219	230	223	95	104	140	134	77	104	175	124
18	216	181	234	258	91	125	140	137	47	130	151	127
19	117	216	85	294	61	-49	116	101	-488	95	24	107
20	120	173	307	233	88	140	131	164	210	219	>435	189
21	360	233	314	205	67	73	91	-58	-143	113	211	-212
22	465	567	623	243	>328	Z±	116	268	-294	6	30	101
23	127	289	225	190	73	239	133	-476	-214	18	422	-
24	95	183	242	172	118	94	-67	106	39	<-172	65	134
25	102	137	168	337	236	<-182	558	94	42	30	24	83
26	147	119	210	213	57	79	45	79	45	33	72	116
27	193	189	371	241	24	163	217	18	80	125	18	125
28	252	305	305	462	-48	-296	284	Z±	75	77	119	57
29	244	276	133	391	57	>518	154	187	57	203	95	Z±
30	150	150	227	234	126	72	99	147	Z±	-	-	-
31	118	164	237	303					-	-	-	-
(a)	157	192	235	241	103	129	164	134	82	109	163	128
(b)	162	192	227	225	72	79	126	96	30	107	141	107
Mean	(a) 206		(b) 201		(a) 133		(b) 93		(a) 121		(b) 96	

The factor used for converting the potential at the collector potential gradient in volts per metre in the open is given for each month.				(a)	141	157	176	202
				(b)	115	142	153	182
				Annual means	(a) 169		(b) 148	

POTENTIAL GRADIENT (reduced to level surface): DIURNAL INEQUALITIES

The departures from the mean of the day are adjusted for non-cyclic change†

2 LERWICK

1943

	Hour G.M.T.																								Non-cyclic change†	No. of days used	Mean
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24			
	volts per metre																										v./m.
	0a days only*																										
Jan.	-92	-93	-95	-104	-104	-109	-69	-103	-101	-85	-63	+20	+24	+75	+124	+130	+22	+13	+173	+252	+109	+45	+92	-61	+109	3	266
Feb.	-10	+2	-13	-21	-22	-22	-20	-31	-23	+38	+16	-3	-30	+20	+31	-3	+16	+45	+62	-14	-11	-14	-19	-2	+41	1	102
Mar.	-27	-32	-32	-22	-29	-30	-22	-19	-6	-12	-21	-26	-25	-12	-13	-19	+19	+57	+78	+92	+78	+43	+8	-27	+49	11	207
Apr.	-38	-55	-60	-70	-59	-51	-43	-35	-13	+1	-17	+34	+6	+47	+9	+38	+51	+51	+79	+75	+53	+33	-5	-32	+20	6	198
May	-2	-17	-3	-2	+3	+16	-3	-10	-13	-24	-12	-18	-27	-13	-18	-19	-4	+14	+32	+44	+36	+35	+6	0	-8	9	151
June	+43	+19	-16	-26	-29	-20	-4	-24	-12	-9	-22	-25	-31	-24	-1	+18	+7	-18	-15	-9	+17	+56	+61	+62	+2	12	194
July	+10	0	-2	-8	+4	+12	+15	+2	-11	0	-7	+3	-8	-11	-18	-21	-34	-31	-16	-1	+29	+42	+34	+18	+14	19	180
Aug.	+22	-8	-29	-31	+3	+13	+13	-15	-35	-45	-55	-51	-57	-41	-23	-18	-5	+25	+56	+63	+49	+70	+53	+43	-14	14	225
Sept.	-7	-17	-9	-23	-21	-23	+4	-5	-25	-26	-34	-27	-3	-13	+1	+10	+17	+46	+63	+61	+34	+7	-3	-5	-36	9	196
Oct.	-30	-35	-46	-43	-45	-37	-33	-24	-21	-28	-35	-30	-21	-4	+33	+85	+103	+71	+55	+25	+43	+27	-4	-6	-25	10	271
Nov.	-21	-31	-28	-26	-28	-14	+1	+6	-7	-18	-10		+9	+14	+24	+48	+17	+10	+17	+26	+17	+4	+18	-1	+25	3	132
Dec.	-19	-24	-49	-45	-43	-41	-35	-21	-3	+1	+1	+18	+23	+31	+55	+44	+33	+43	+21	+17	-2	+10	-6	-14	+3	8	137
Year	-14	-24	-32	-35	-31	-27	-18	-24	-21	-16	-22	-10	-12	+6	+17	+24	+20	+27	+50	+53	+38	+30	+20	-2	+15	105	188
Winter	-35	-37	-46	-49	-49	-50	-35	-39	-30	-13	-16	+6	+6	+35	+59	+55	+22	+28	+68	+70	+28	+11	+21	-19	+45	15	159
Equinox	-25	-35	-37	-39	-39	-35	-23	-21	-16	-16	-27	-12	-11	+5	+7	+29	+47	+56	+69	+63	+52	+27	-1	-17	+2	36	218
Summer	+18	-1	-13	-17	-5	+5	+5	-12	-18	-19	-24	-23	-31	-22	-15	-10	-9	-3	+14	+24	+33	+51	+39	+31	-1	54	187

1a and 2a days only*

Jan.	-23	-20	-20	-7	-10	-2	+9	-5	+11	+21	+27	-21	+6	+15	+19	+42	+51	+39	+33	+11	-22	-47	-73	-33	-4	4	111
Feb.	+20	-7	-24	-32	-32	-22	-9	0	-20	-63	-22	-2	+11	+1	-1	+21	+55	+52	+51	+48	+36	-14	-48	+1	-5	3	93
Mar.	+11	-35	-17	-22	-45	-6	-43	-126	-96	-139	-14	+6	-5	+19	+32	+48	+45	+58	+52	+59	+87	+58	+53	-24	-58	3	119
Apr.	+19	+17	+21	+21	+15	+4	+4	-7	-144	-249	-77	-23	-26	-17	+21	+51	+57	+45	+55	+71	+50	+35	+33	+26	-13	2	70
May	-26	-25	-16	-18	-27	-48	-41	-38	+8	+4	+22	+2	+15	+24	+31	+23	+13	+8	+14	+8	+16	+21	+20	+10	-9	3	98
June	+12	+5	+3	+9	-19	-37	-15	-5	-10	-16	-18	-35	-43	-43	-47	-27	-4	+7	+59	+69	+60	+26	+44	+19	+17	8	145
July	+32	+55	+46	+47	+40	+55	+26	+20	+45	-2	-5	-116	-77	-65	-6	+26	-3	-29	-31	-1	-15	-10	-21	+51	3	108	
Aug.	-21	-22	-34	+13	+25	+7	+55	-19	-26	-9	-20	-19	-4	+21	+18	+12	+13	-5	-21	-12	+62	+29	-14	-29	+9	6	184
Sept.	-2	-7	-12	-27	-28	-40	-10	-17	-8	-20	-7	-36	-25	+14	+22	+63	+67	+45	+33	+61	+49	-47	-60	-8	+26	5	132
Oct.	-24	+16	+12	+14	0	+3	+1	+24	+6	-48	-65	-85	-35	-6	+17	-12	+45	+85	+83	+49	-6	-17	-37	-23	+120	7	146
Nov.	-19	-27	-39	-29	-33	-48	-56	-47	-8	+32	+20	+8	-1	+7	-10	+14	-22	+36	+80	+58	+37	+22	+15	+11	-35	8	108
Dec.	-28	-13	-15	+3	-11	-27	-23	-12	+7	-14	-7	-17	-5	+23	+61	+47	+43	+34	-13	-73	+23	+23	-1	-3	-11	6	109
Year	-4	-5	-8	-2	-10	-13	-9	-19	-20	-41	-14	-28	-16	-1	+13	+26	+30	+31	+33	+29	+31	+7	-7	-6	+7	58	119
Winter	-13	-17	-25	-16	-21	-25	-20	-16	-3	-6	+5	-8	+3	+11	+17	+31	+32	+40	+38	+11	+19	-4	-27	-6	-14	21	105
Equinox	+1	-2	+1	-3	-15	-10	-12	-31	-61	-114	-41	-35	-23	+3	+23	+37	+53	+58	+56	+60	+45	+7	-3	-7	+19	17	117
Summer	-1	+3	0	+13	+5	-6	+6	-11	+4	-4	-5	-42	-27	-16	-1	+9	+5	-5	+5	+16	+31	+17	+10	-5	+17	20	134

Winter: January, February, November, December

Equinox: March, April, September, October

Summer: May to August

* For explanation of 0a, 1a, 2a days see p. 16, *Observatories' Year Book, 1938*† See p. 10, *Observatories' Year Book, 1938*

3 LERWICK

1943

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient
1	1c	1.5	1b	0.9	1a	2.8	1c	0.8	0a	hr.	1b	2.1
2	1c	2.8	1b	0.4	0a	...	1b	0.9	1b	1.7	1b	0.2
3	1b	0.1	1b	2.7	0a	...	0a	...	1b	0.2	1b	0.8
4	0a	...	1b	2.2	1b	0.6	1b	0.7	0a	...	1a	1.1
5	1b	1.3	2c	5.8	(2c)	-	2c	6.7	1a	0.6	1a	0.1
6	1b	0.7	1b	0.5	0a	...	1c	1.3	1b	1.3	1a	0.6
7	(1b)	-	1c	2.6	1a	0.1	1b	1.5	1b	0.5	0a	...
8	(1b)	-	2b	4.3	1c	2.5	1a	1.3	1a	0.5	1a	0.1
9	1b	0.1	2c	7.2	2b	5.0	1a	2.9	(2c)	-	0a	...
10	1a	1.0	(1b)	-	1c	2.6	1b	1.5	2c	4.0	0a	...
11	1a	0.3	2b	4.5	1c	2.9	0a	...	2c	4.3	(1b)	-
12	2a	4.0	(2c)	-	1b	0.8	2b	3.1	(2b)	-	1b	1.2
13	2b	3.4	(2b)	-	2c	3.1	2b	3.6	(1a)	-	1b	0.6
14	1b	1.9	(2b)	-	2c	4.3	0a	...	1b	2.1	1b	0.8
15	1b	0.2	2c	3.0	2c	7.1	1b	1.4	1b	0.9	1a	0.6
16	1b	0.8	1b	0.1	0a	...	(1b)	-	1b	0.3	0a	...
17	2c	7.1	1b	1.1	1a	0.5	1c	2.8	0a	...	1a	0.1
18	1c	2.2	(1c)	-	0a	...	2b	3.1	0a	...	1a	0.3
19	0a	...	(1b)	-	0a	...	1c	1.7	0a	...	0a	...
20	2b	7.5	0a	...	1b	0.1	2b	10.3	1b	1.2	0a	...
21	1b	1.2	1a	1.3	0a	...	0a	...	0a	...	2b	3.7
22	2c	5.0	1b	2.6	0a	...	1b	2.2	0a	...	1b	0.4
23	0a	...	1a	1.0	0a	...	0a	...	2b	4.1	1b	0.7
24	1a	0.1	1c	2.5	0a	...	2b	4.8	(1a)	-	0c	...
25	2b	5.7	1b	0.8	0a	...	(2c)	-	(1a)	-	1a	1.0
26	1b	0.7	2b	5.3	(2b)	-	2b	3.3	0a	...	0a	...
27	1b	1.7	1a	2.2	(2b)	-	1c	1.3	1b	2.9	0a	...
28	1b	0.5	1b	1.2	(1b)	-	(1b)	-	1a	1.2	0a	...
29	1b	2.3			(2b)	-	0a	...	0a	...	0a	...
30	2c	3.7			(2c)	-	1b	2.2	1b	2.5	0a	...
31	1b	1.4			1c	1.7			0a	...		
Total	35	57.2	36	52.2	29	34.1	32	57.4	26	28.3	19	14.4
No. of days used	31	29	28	22	31	25	30	27	31	26	30	29
Mean	1.13	2.0	1.29	2.4	0.94	1.4	1.07	2.1	0.84	1.1	0.63	0.5

	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient
1	0a	hr.	1a	1.8	1a	0.3	1a	2.2	2a	3.6	1a	2.1
2	0a	...	0a	...	1b	1.0	(1c)	-	1a	0.9	1a	0.1
3	1b	1.1	0a	...	0a	...	(1b)	-	2a	4.0	(1a)	-
4	1a	2.7	0a	...	0a	...	(1b)	-	1a	0.3	1b	0.9
5	0a	...	0a	...	1b	1.9	2b	7.3	2b	8.5	0a	...
6	(2b)	-	0a	...	0a	...	1a	2.6	1b	0.9	1a	1.4
7	(2c)	-	1a	0.6	0a	...	1b	0.8	0a	...	0a	...
8	1a	0.4	1b	1.5	0a	...	1b	2.0	1b	0.3	1a	0.2
9	1a	0.5	1a	0.1	0a	...	0a	...	1a	0.7	0a	...
10	0a	...	0a	...	0a	...	0a	...	2b	3.2	1a	0.5
11	1b	1.9	0a	...	0a	...	(1a)	-	2c	7.2	1a	0.5
12	(1b)	-	(1b)	-	0a	...	2a	3.7	1c	1.3	0a	...
13	1b	0.4	1a	0.7	1b	2.1	1a	0.2	1b	0.6	0a	...
14	0a	...	1b	0.6	2c	4.2	0a	...	(1b)	-	0a	...
15	2b	5.3	1b	1.1	(1a)	-	0a	...	1b	1.5	0a	...
16	1b	2.0	1b	1.0	1a	0.2	0a	...	0a	...	0a	...
17	0a	...	0a	...	1b	0.6	1b	0.1	1b	0.8	0a	...
18	0a	...	2b	4.9	1a	0.4	1b	0.6	1a	0.1	2b	3.1
19	0a	...	0a	...	2b	4.5	1b	1.5	1a	2.4	2c	3.9
20	0a	...	2b	3.9	(2c)	-	2b	3.0	0a	...	1c	1.4
21	0a	...	0a	...	2b	3.2	1a	0.1	1b	1.3	2c	4.1
22	0a	...	0a	...	(2c)	-	0a	...	1c	2.4	2c	4.8
23	0a	...	0a	...	1a	1.0	0a	...	2b	5.0	(2c)	-
24	0a	...	0a	...	1c	1.4	1b	0.5	1b	2.4	1b	1.3
25	0a	...	0a	...	1c	1.8	1b	1.1	1c	1.8	1b	1.5
26	0a	...	(1b)	-	1c	1.0	1a	1.9	1a	1.2	1b	1.7
27	0a	...	1b	0.2	1b	1.7	1b	1.4	1b	2.5	1b	0.7
28	0a	...	1b	0.8	2b	6.3	0a	...	2c	10.1	1b	1.9
29	0a	...	1a	1.0	1a	1.0	0a	...	1c	2.2	1c	2.4
30	0a	...	1a	0.7	(1b)	-	0a	...	1b	1.1	(1c)	-
31	2b	5.7	0a	...			1a	0.8			(1b)	-
Total	16	20.0	18	18.9	27	32.6	24	29.8	34	66.3	27	32.5
No. of days used	31	28	31	29	30	26	31	27	30	29	31	27
Mean	0.52	0.7	0.58	0.7	0.90	1.3	0.77	1.1	1.13	2.3	0.87	1.2

Annual values: Character frequency 0 1 2
No. of days used 108 191 66

Mean character figure 0.88 (365 days)

Duration: Total 443.7 hr.
No. of days 324
Mean 1.37 hr.

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

4 LERWICK (H)

14,000γ (0.14 C.G.S. unit) +

JANUARY 1943

	Hour G.M.T.																								Mean
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	391	392	391	392	394	397	397	397	395	392	390	392	397	403	406	406	408	408	401	385	370	368	359	368	392
2	383	386	387	388	392	396	398	397	391	387	382	384	384	386	386	389	379	378	382	385	386	385	386	385	387
3	386	388	393	392	393	404	405	402	401	391	385	381	379	377	381	382	395	398	400	395	392	393	391	398	392
4 d	401	385	380	380	391	393	397	393	388	389	383	331	347	403	409	396	413	419	369	374	396	393	377	376	387
5	366	318	325	359	388	386	380	388	383	372	375	378	382	388	387	383	381	377	377	388	392	397	371	372	376
6	363	372	384	383	381	379	390	392	386	379	365	361	375	383	388	387	379	384	386	382	406	392	382	383	382
7 q	382	385	386	386	386	385	388	391	390	385	384	382	380	387	393	395	394	395	392	389	388	387	386	389	388
8	386	385	384	386	388	390	392	393	391	386	385	385	387	389	392	396	393	392	386	383	375	379	390	388	388
9	377	378	393	394	399	397	397	380	369	374	386	383	381	385	388	392	394	387	385	385	387	385	385	387	386
10	385	386	385	384	384	387	388	390	389	386	386	383	389	397	396	396	393	388	389	384	383	391	380	377	387
11 q	380	386	386	386	387	392	392	393	394	392	392	389	389	389	392	391	385	392	390	391	390	390	388	392	389
12	388	389	388	387	384	402	405	395	397	392	389	384	384	386	396	395	396	393	391	393	389	383	379	380	390
13 q	385	385	384	388	389	389	394	396	390	392	392	389	389	392	392	392	391	394	393	392	394	392	397	392	391
14 q	390	389	391	391	389	391	394	394	393	395	391	388	388	392	395	397	397	397	397	397	395	392	392	392	393
15 q	390	390	390	392	393	397	399	398	399	396	393	390	389	395	398	397	395	397	400	398	396	386	388	392	394
16	392	392	393	393	394	395	397	398	397	393	388	386	386	393	393	386	387	385	383	383	386	389	387	394	390
17 d	389	383	388	393	397	400	405	397	394	400	377	343	352	366	392	396	400	460	379	385	372	375	380	393	388
18	385	380	381	378	383	385	392	383	380	380	381	373	368	380	384	387	388	384	370	372	380	382	383	383	381
19	384	383	384	389	390	389	395	386	386	384	379	380	385	378	389	392	391	375	376	380	380	382	387	385	385
20 d	387	380	385	387	394	399	385	388	386	377	374	362	373	374	380	375	397	567	614	527	230	96	299	314	381
21 d	325	346	268	337	380	386	371	370	367	364	346	349	368	394	391	373	376	372	372	372	379	422	403	362	366
22 d	361	362	375	381	383	388	390	388	376	359	358	370	364	366	356	372	370	412	353	365	369	369	377	371	372
23	345	353	378	381	382	374	380	380	378	377	371	362	371	375	378	377	374	377	382	382	379	391	380	381	375
24	372	368	348	377	383	387	390	386	383	385	375	363	370	372	377	379	383	383	381	377	381	377	380	388	378
25	387	381	383	385	387	386	388	385	387	384	376	372	373	381	387	385	383	385	388	387	388	392	393	391	385
26	391	390	391	382	391	399	395	397	393	357	351	378	376	379	385	390	365	381	382	383	384	383	384	385	383
27	383	385	387	385	386	387	389	393	392	386	380	372	384	376	372	377	372	374	385	386	387	388	388	386	383
28	384	385	387	390	395	390	397	400	393	364	362	367	369	384	380	379	378	382	383	377	389	391	389	387	383
29	389	380	387	386	392	390	390	392	389	383	382	377	377	381	386	389	388	392	392	392	383	392	389	387	387
30	388	398	370	384	389	394	396	392	386	382	378	378	381	383	390	389	386	389	390	391	385	386	400	386	387
31	386	386	385	387	393	400	397	395	392	387	388	386	386	389	386	380	388	394	388	388	391	389	386	383	389
Mean	381	380	379	384	389	391	393	391	388	383	379	375	378	385	388	388	388	397	392	389	381	378	382	382	385

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, -6γ.

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

11° +

5 LERWICK (D)

JANUARY 1943

	Hour G. M. T.																								
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
1	52.2	52.9	52.4	52.3	52.3	52.2	52.1	52.0	51.9	52.5	53.2	54.2	54.9	55.0	54.5	53.9	54.2	54.9	55.2	53.6	47.1	40.8	39.6	45.5	51.6
2	47.4	51.5	51.6	51.8	51.7	52.2	52.5	52.4	54.1	54.6	55.0	55.8	55.9	56.2	55.5	55.4	57.0	56.3	55.5	52.6	51.6	49.9	49.7	51.6	53.2
3	52.8	53.7	53.3	53.2	53.8	53.3	52.1	51.4	51.5	51.1	52.4	54.8	55.6	57.1	57.9	60.1	54.4	53.8	54.4	53.8	52.5	50.9	46.2	42.0	53.0
4 d	45.9	48.1	49.5	51.9	53.2	54.8	52.3	52.6	51.6	51.6	54.2	55.8	60.2	60.0	54.4	59.8	68.0	40.2	49.6	53.9	38.4	45.8	43.8	46.2	51.7
5	49.4	50.1	52.1	52.3	50.2	51.4	54.1	52.1	52.5	52.0	52.8	53.9	55.1	55.6	55.9	54.9	55.3	50.8	52.1	50.7	50.1	49.1	39.8	48.9	51.7
6	50.2	51.7	52.8	52.3	51.6	52.0	53.2	55.0	54.3	53.4	54.3	55.2	54.1	56.4	55.5	55.1	51.7	50.0	53.8	51.9	44.2	48.5	50.1	52.3	52.5
7 q	51.7	51.8	52.1	51.6	51.1	51.9	51.8	50.9	51.1	50.8	52.5	54.0	54.9	55.3	54.1	53.1	53.1	52.4	52.6	51.8	51.5	51.2	50.2	51.1	52.2
8	50.8	51.6	51.7	51.7	52.4	52.5	52.3	51.9	51.6	51.6	52.1	53.3	54.8	55.0	56.5	56.1	55.3	55.1	54.0	52.6	44.6	44.5	47.2	47.0	51.9
9	47.6	48.3	51.9	48.9	49.4	50.7	54.4	53.7	55.5	56.8	52.5	52.3	53.9	55.4	55.1	54.1	54.1	54.7	55.1	53.3	52.0	49.6	50.4	51.3	52.5
10	51.2	50.1	49.1	49.8	50.8	51.7	52.6	51.6	50.9	52.1	53.6	54.6	54.1	56.4	55.9	53.9	53.5	53.3	53.1	52.7	51.8	46.2	43.4	47.5	51.7
11 q	50.7	51.4	51.7	51.3	51.2	53.0	53.1	52.3	51.8	52.2	53.2	54.2	53.8	55.0	55.5	55.7	55.2	54.8	54.0	52.7	51.6	47.1	49.6	49.5	52.5
12	50.2	51.2	50.5	50.4	51.1	51.4	51.4	52.2	52.4	51.5	52.1	53.2	54.7	55.4	55.3	54.6	55.0	55.8	55.0	53.8	53.6	48.2	47.1	49.3	52.3
13 q	51.2	54.1	52.9	51.2	51.0	51.6	51.5	51.5	52.1	52.3	53.4	55.4	54.7	54.4	55.0	54.7	54.0	53.0	52.7	52.3	51.7	51.2	51.2	51.3	52.7
14 q	51.4	51.7	51.7	51.2	51.2	51.0	51.0	51.0	50.9	51.6	52.6	53.4	54.6	54.7	53.8	53.2	52.7	52.5	52.3	52.2	52.0	51.2	51.2	51.7	52.1
15 q	52.0	52.3	52.7	52.7	52.8	52.6	52.1	51.4	50.4	50.8	51.9	53.1	54.0	54.7	54.7	54.2	54.3	53.9	53.6	53.2	52.2	48.8	48.4	51.0	52.4
16	52.2	52.5	52.4	52.4	52.4	52.2	52.1	51.5	51.2	51.7	52.5	52.8	54.5	56.7	56.9	57.8	59.3	56.1	51.3	55.0	51.0	50.7	48.9	48.0	53.0
17 d	45.4	47.5	52.1	51.7	51.3	51.0	50.7	52.8	53.6	54.2	53.8	58.1	60.0	59.6	62.2	56.4	57.1	56.0	52.1	38.5	43.1	48.7	48.7	47.8	52.2
18	45.9	48.4	50.5	51.9	52.1	51.4	52.3	52.9	52.4	52.2	54.2	54.5	55.0	56.9	55.7	53.9	53.6	53.1	45.3	50.7	50.0	50.0	49.3	49.9	51.8
19	53.1	49.4	52.1	50.0	51.2	51.1	51.4	50.4	50.9	52.5	53.1	53.6	55.0	54.9	53.8	52.8	52.5	51.4	52.2	51.6	48.8	45.5	45.8	48.1	51.3
20 d	52.4	51.5	52.2	51.7	51.9	51.6	52.1	54.5	54.5	53.6	53.5	57.0	57.5	58.1	59.4	61.9	59.0	56.8	32.2	51.2	54.4	6.2	32.0	41.0	50.3
21 d	45.2	49.1	56.5	53.1	50.6	51.9	52.1	55.4	56.5	55.1	52.6	53.1	56.9	56.9	54.1	47.0	53.3	52.4	51.3	50.6	46.2	48.0	41.2	47.6	51.5
22 d	37.7	47.5	50.5	51.6	52.3	52.3	52.3	52.0	53.5	53.1	51.7	53.1	54.9	57.0	52.9	54.8	56.4	39.0	39.8	49.9	48.3	42.0	43.6	48.2	49.8
23	54.3	56.9	52.4	51.8	51.5	53.9	52.5	50.1	49.5	50.3	51.9	52.4	54.9	54.7	53.2	52.7	51.5	51.5	51.7	51.9	50.5	45.5	48.4	49.9	51.8
24	51.8	49.3	53.5	50.6	48.4	49.6	50.3	50.9	49.7	50.7	51.9	53.1	56.3	57.4	55.3	53.9	52.7	51.7	52.4	51.0	44.6	49.7	50.3	50.4	51.5
25	50.2	50.3	51.0	51.3	51.5	52.7	52.3	50.3	50.0	51.0	51.3	54.1	54.9	55.3	54.4	53.7	53.9	53.3	53.2	53.1	51.3	51.0	51.4	51.7	52.2
26	51.2	53.1	47.9	43.1	48.2	51.1	51.5	51.5	52.8	54.3	60.2	56.4	57.0	56.9	56.9	56.1	54.9	54.2	53.8	52.4	50.8	49.2	45.4	50.4	52.5
27	48.2	52.1	51.7	51.6	52.0	51.9	51.8	51.7	50.9	51.7	53.1	53.7	56.9	57.3	54.6	55.5	53.5	48.2	53.1	52.2	51.2	50.9	51.1	51.2	52.3
28	52.0	51.6	51.7	52.3	53.3	52.9	52.2	52.2	52.9	53.9	56.3	57.3	58.7	59.0	58.0	54.7	52.3	49.2	53.1	47.2	48.1	50.1	51.2	52.0	53.0
29	48.6	50.3	52.2	50.4	51.6	52.0	51.8	51.1	51.3	52.0	53.0	53.4	55.0	55.5	55.0	53.8	53.2	53.0	52.6	52.0	51.0	46.6	51.7	51.8	52.0
30	52.5	50.5	51.4	51.4	50.6	51.5	51.4	51.4	50.8	52.0	52.9	54.0	55.6	55.0	54.3	53.5	52.7	52.9	52.8	52.2	51.7	45.9	44.5	48.4	51.7
31	51.2	51.7	52.2	52.3	53.0	51.4	52.0	52.3	51.4	51.3	51.9	53.3	55.5	56.5	57.5	57.1	55.1	54.2	54.9	53.1	52.6	47.6	50.0	50.6	52.9
Mean	49.9	51.0	51.8	51.3	51.5	52.0	52.1	52.0	52.1	52.4	53.2	54.3	55.6	56.3	55.6	55.0	54.8	52.4	51.8	51.7	49.6	46.8	47.1	49.1	52.1

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

15

6	LERWICK (V)												46,000γ (0.46 C.G.S. unit) +												JANUARY 1943																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	Hour G.M.T.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

Corrections to be applied to all values H, -6γ; D, -4.2'; V, -6γ.

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

7 LERWICK												JANUARY 1943					
TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.		
Horizontal force			Declination			Vertical force											
Maximum 14,000γ +	Minimum 14,000γ +	Range	Maximum 11° +	Minimum 11° +	Range	Maximum 46,000γ +	Minimum 46,000γ +	Range									
1	h. m. γ	γ h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	0,0,0,0,0,1,3,3	7	0	75.6		
2	16 38 412	352 22 40	60	12 59 55.9	35.4 21 53	20.5	20 52 976	907 16 40	69	17 6 941	910 6 26	31	2,0,1,1,1,2,2,1	10	0	75.0	
3	6 31 400	366 16 47	34	16 43 58.1	45.4 0 7	12.7	17 6 941	910 6 26	31	22 26 951	895 24 0	56	2,1,0,1,2,2,2,3	13	0	74.9	
4 d	5 41 409	370 14 1	39	15 10 63.4	40.5 23 2	22.9	22 26 951	895 24 0	56	16.4 17 43	868 0 52	273	3,2,2,4,4,6,4,4	29	1	74.1	
5	17 22 487	307 11 47	180	16 29 75.4	16.4 17 43	59.0	17 15 1141	868 0 52	273	17 50 969	821 2 43	148	5,3,2,2,1,3,3,4	23	1	73.4	
6	21 13 423	251 1 46	172	16 28 58.4	36.2 22 55	22.2	17 50 969	821 2 43	148	16 27 939	892 1 6	47	3,1,2,2,2,2,3,3	18	1	73.0	
7 q	20 32 419	337 0 47	82	13 43 57.1	38.2 20 20	18.9	16 27 939	892 1 6	47	15 41 397	912 8 27	13	1,1,0,0,1,0,0,1	4	0	73.1	
8	15 41 397	377 0 23	20	13 0 55.7	49.9 22 39	5.8	16 49 925	912 8 27	13	22 46 405	857 23 43	106	1,1,0,0,1,1,3,4	11	0	73.2	
9	22 46 405	368 20 14	37	14 44 57.1	41.8 20 28	15.3	20 20 963	857 23 43	106	2 55 407	862 0 0	75	3,3,2,3,1,2,2,2	18	1	73.2	
10	2 55 407	366 9 9	41	9 43 58.7	45.1 0 30	13.6	21 18 937	862 0 0	75	15 31 401	896 22 13	44	1,1,1,1,1,2,1,3	11	0	74.0	
11 q	15 31 401	366 22 58	35	14 4 57.1	39.1 22 29	18.0	20 44 940	896 22 13	44	23 18 402	912 12 52	26	1,1,0,0,0,1,1,2	6	0	74.9	
12	23 18 402	376 0 17	26	16 4 57.4	42.2 21 43	15.2	21 42 938	912 12 52	26	6 13 409	908 5 41	39	1,2,1,0,0,0,1,2	7	0	75.3	
13 q	6 13 409	375 22 29	34	12 59 56.0	42.9 22 0	13.1	22 3 947	908 5 41	39	22 37 411	898 2 11	27	1,0,0,0,0,1,0,2	4	0	76.0	
14 q	22 37 411	380 1 15	31	11 21 55.9	48.6 23 2	7.3	0 0 925	898 2 11	27	17 8 399	907 0 0	15	0,0,0,0,0,0,0,0	0	0	76.1	
15 q	17 8 399	385 12 10	14	13 0 55.0	50.1 21 17	4.9	21 24 922	907 0 0	15	15 34 403	910 5 28	26	0,0,0,0,0,0,1,1	2	0	76.5	
16	15 34 403	383 21 27	20	13 57 55.0	47.2 22 27	7.8	21 40 936	910 5 28	26	23 47 423	904 23 52	56	0,0,0,0,1,3,3,3	10	0	76.1	
17 d	23 47 423	372 18 39	51	17 6 60.1	44.2 23 46	15.9	18 3 960	904 23 52	56	17 19 586	851 23 42	272	3,1,2,3,3,5,4,3	24	1	76.2	
18	17 19 586	326 11 18	260	15 19 66.9	26.6 19 57	40.3	17 17 1123	851 23 42	272	0 4 399	860 0 0	87	3,1,1,1,1,1,3,0	11	0	76.7	
19	0 4 399	363 12 30	36	13 20 58.0	39.4 0 0	18.6	18 28 947	860 0 0	87	21 54 399	895 0 42	42	2,1,1,1,1,2,1,2	11	0	77.0	
20 d	21 54 399	365 21 32	34	0 27 56.9	41.4 21 37	15.5	17 36 937	895 0 42	42	18 25 783	704 21 19	454	1,1,2,2,2,6,8,6	28	2	77.0	
21 d	18 25 783	17 21 45	766	20 28 82.0	-28.7 21 14	110.7	18 16 1158	704 21 19	454	21 36 520	785 2 54	280	4,4,2,3,4,3,3,5	28	1	77.0	
22 d	21 36 520	235 2 38	285	2 14 64.5	32.7 21 38	31.8	21 36 1065	785 2 54	280	17 25 461	724 0 50	345	5,2,2,2,3,5,4,4	27	1	77.2	
23	17 25 461	319 0 21	142	13 29 61.4	17.7 17 46	43.7	17 37 1069	724 0 50	345	21 32 416	876 1 38	62	3,2,2,2,1,1,1,3	15	1	77.7	
24	21 32 416	334 0 29	82	0 56 62.6	39.3 21 31	23.3	17 6 938	876 1 38	62	23 57 401	881 3 21	61	3,2,1,2,2,1,3,2	16	0	76.7	
25	23 57 401	336 2 26	65	13 19 59.0	38.4 20 36	20.6	15 43 942	881 3 21	61	0 0 398	908 0 20	23	2,1,2,0,1,0,1,0	7	0	77.0	
26	0 0 398	367 11 50	31	13 12 56.0	48.0 0 43	8.0	16 9 931	908 0 20	23	7 54 406	882 23 38	83	3,3,2,3,1,3,1,3	19	1	77.5	
27	7 54 406	337 9 43	69	10 26 64.5	41.1 3 28	23.4	16 32 965	882 23 38	83	7 5 396	891 0 0	71	2,1,0,1,2,3,1,0	10	0	77.6	
28	7 5 396	354 17 9	42	12 53 60.0	42.3 17 18	17.7	17 13 962	891 0 0	71	7 15 404	913 4 48	47	0,1,1,2,2,3,3,2	14	1	77.3	
29	7 15 404	354 10 35	50	12 17 60.1	40.4 19 50	19.7	17 11 960	913 4 48	47	21 26 406	908 2 35	31	2,0,0,1,1,0,1,3	8	0	78.0	
30	21 26 406	372 12 19	34	13 6 56.4	40.5 21 25	15.9	20 41 939	908 2 35	31	22 21 414	878 3 13	51	4,3,1,0,0,0,1,3	12	1	78.0	
31	22 21 414	358 2 40	56	2 50 62.6	40.6 22 30	22.0	20 59 929	878 3 13	51	5 25 402	909 3 55	32	0,1,0,1,1,1,1,2	7	0	78.0	
Mean	5 25 402	371 23 55	31	15 7 58.2	44.9 21 42	13.3	21 29 941	909 3 55	32	- - -	971	875	97	1.7	13.2	0.42	75.9

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

8	LERWICK (H)												14,000γ (0.14 C.G.S. unit) +												FEBRUARY 1943				
	Hour G.M.T.																												
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean				
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ				
2	378	390	385	384	386	387	391	391	389	388	387	386	385	386	388	387	390	389	389	389	389	386	388	393	388				
3	385	386	386	387	390	391	391	392	396	400	398	396	394	392	387	390	392	390	397	398	394	390	386	388	391				
4	384	388	378	385	387	395	396	400	403	395	392	382	382	377	377	390	389	392	394	391	379	376	375	380	387				
5	383	385	370	384	378	384	386	385	390	386	373	363	389	386	382	386	386	391	392	390	389	388	392	387	384				
6	402	388	388	385	389	394	385	386	391	386	386	381	376	389	388	392	389	384	386	390	375	380	383	389	387				
7	367	363	383	383	383	393	396	384	382	381	379	375	373	385	389	398	389	377	383	384	387	382	390	385	383				
8	379	380	379	381	380	389	394	392	388	383	383	380	381	389	396	398	398	392	384	386	383	392	385	389	387				
9	403	382	384	386	391	393	395	395	394	392	386	380	381	384	389	392	392	397	390	401	380	388	390	390	390				
10	391	391	391	393	391	399	404	403	399	385	386	384	383	385	390	397	394	395	394	389	394	387	389	391	392				
q	392	392	392	392	395	395	398	398	397	392	392	387	386	385	386	388	395	398	391	397	395	393	392	388	392				
11	389	389	396	395	406	405	393	390	387	382	384	378	372	374	385	388	391	392	391	388	389	383	386	386	388				
12	384	383	384	388	389	389	391	391	391	392	383	373	373	383	395	393	392	395	396	392	389	397	395	395	389				
13	392	397	405	415	401	409	405	404	395	384	375	372	377	387	385	383	387	394	383	384	387	387	403	388	392				
14	392	389	389	390	392	396	387	396	395	395	385	388	392	392	391	392	393	396	398	400	399	389	386	389	392				
15	389	393	395	397	399	399	395	400	392	380	375	380	383	384	386	389	391	394	392	389	392	392	393	392	390				
16	392	392	389	389	391	392	395	397	393	384	383	380	394	387	387	389	391	400	402	401	405	408	405	409	394				
17	412	409	402	401	421	406	375	374	336	369	366	353	379	403	371	377	387	379	386	386	427	374	374	377	385				
18	382	382	372	372	379	384	390	383	364	377	374	370	375	380	389	393	393	393	395	393	392	392	392	380	383				
19	393	390	372	385	394	396	395	394	386	377	380	377	389	388	387	385	387	393	392	391	388	390	392	391	388				
20	390	392	391	391	390	389	397	397	392	383	371	363	369	374	383	387	386	387	389	393	394	392	392	392	387				
21	392	392	392	392	393	395	396	394	391	381	378	374	376	383	388	385	388	387	383	380	384	391	391	392	387				
22	390	391	392	393	395	396	399	400	398	386	373	378	380	377	389	392	392	400	396	394	389	389	395	396	391				
23	397	407	390	392	397	400	400	404	401	384	380	381	383	378	383	394	395	392	399	390	386	378	387	389	391				
24	384	389	389	388	385	383	397	396	395	383	376	378	376	380	381	389	394	393	388	390	391	399	379	388	387				
25	383	385	384	386	386	392	396	396	395	387	383	381	383	389	400	397	406	413	416	483	378	340	321	250	385				
26	289	296	346	325	331	370	394	395	383	374	360	372	375	379	387	406	395	396	410	406	386	360	350	314	367				
27	332	323	324	365	379	374	383	386	380	374	352	357	364	367	371	379	383	388	389	387	386	396	389	381	371				
28	380	377	380	386	389	392	398	398	393	382	376	370	371	377	382	384	383	385	388	392	394	394	393	392	386				
Mean	383	383	383	386	389	392	394	394	389	384	379	376	380	384	386	390	391	392	393	395	390	386	385	381	387				

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, -4γ.

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

9	LERWICK (D)												11° +												FEBRUARY 1943											
	Hour G.M.T.																																			
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
1	50.1	50.3	48.2	49.9	50.4	50.5	49.5	49.5	49.2	50.0	51.9	54.3	55.4	56.2	57.3	57.2	55.8	55.7	54.6	54.4	52.2	51.1	45.9	44.1	51.8											
2	50.2	50.5	51.0	50.5	51.2	50.4	50.3	50.0	50.4	52.1	52.3	53.8	54.4	56.2	56.0	56.1	56.9	55.7	54.5	53.5	53.0	51.6	49.8	50.3	52.5											
3	49.4	43.7	46.1	47.9	48.5	48.7	49.7	50.6	51.2	52.5	54.2	55.3	57.1	59.8	60.7	58.4	56.8	55.5	54.5	54.3	43.6	45.6	46.5	47.4	51.6											
4 d	48.9	51.5	51.8	52.3	48.7	50.0	48.7	49.8	50.4	54.0	53.9	53.6	57.3	58.4	58.3	56.8	57.9	54.8	56.0	54.3	51.8	50.4	50.2	48.5	52.8											
5	54.3	54.0	50.8	48.2	50.0	49.6	49.8	51.9	52.1	52.1	54.5	56.4	56.2	55.5	56.0	55.4	49.1	52.2	53.5	52.7	42.2	52.1	49.0	50.1	52.0											
6	52.6	57.1	51.8	52.3	51.2	50.4	50.0	52.1	55.5	54.8	55.2	54.6	54.6	54.8	55.6	54.6	54.3	48.7	57.0	54.4	51.5	46.2	40.5	48.5	52.4											
7	47.3	48.4	50.6	51.9	52.4	51.8	50.7	50.5	50.1	50.2	51.9	53.3	53.7	54.9	55.5	55.4	56.0	57.0	57.1	55.0	51.6	48.2	45.6	47.5	51.9											
8	48.8	49.4	49.4	50.6	51.7	51.8	51.3	51.3	51.2	51.8	52.9	53.9	55.6	56.7	57.3	56.0	55.4	53.6	52.0	46.2	49.6	50.1	50.3	49.8	51.9											
9	50.7	51.4	51.9	52.4	52.1	52.1	51.6	52.4	53.0	52.0	53.0	54.1	56.6	55.5	55.7	54.7	53.7	53.0	52.8	48.1	45.1	50.6	50.2	51.0	52.2											
10 q	51.6	51.6	51.5	51.6	50.9	51.2	51.0	51.1	51.4	51.6	53.0	55.1	56.9	57.5	57.5	55.9	55.2	55.3	51.8	52.4	52.7	51.6	47.7	48.2	52.7											
11	48.6	50.7	52.4	51.7	50.1	49.9	50.9	50.4	50.4	51.0	52.2	55.4	56.5	56.8	55.7	54.5	52.9	52.2	52.3	52.5	49.6	51.4	49.4	49.0	51.9											
12 q	48.4	48.4	48.8	47.0	48.0	51.0	51.0	50.5	50.4	51.6	52.8	55.3	57.4	57.5	56.2	55.4	54.6	54.3	53.4	52.2	47.5	46.4	48.8	50.4	51.6											
13 d	51.1	51.3	49.5	47.8	51.6	50.9	52.2	51.8	52.1	51.9	54.6	55.5	56.9	57.6	57.3	55.5	55.1	54.8	52.4	50.1	50.5	49.3	47.5	49.1	52.3											
14	53.0	49.9	50.0	50.4	50.9	50.7	52.0	52.0	51.5	52.6	54.9	55.0	55.1	55.0	54.7	53.2	52.4	52.6	53.3	52.6	52.8	48.9	48.7	50.3	52.2											
15 q	55.1	52.3	50.9	51.2	51.4	51.0	51.9	52.5	53.0	52.3	52.3	53.4	55.4	54.8	54.3	53.0	52.2	52.1	51.4	49.5	49.8	50.9	51.4	51.5	52.2											
16	51.9	51.5	51.2	51.3	50.8	50.7	50.3	49.7	49.0	49.0	50.5	53.2	54.1	54.1	53.9	52.9	52.3	52.9	52.7	52.1	51.9	52.3	51.9	51.6	51.7											
17 d	51.6	51.3	52.0	55.0	59.3	56.2	56.2	58.7	65.6	60.3	56.5	53.6	53.9	56.0	57.0	50.7	51.1	48.8	48.9	45.6	40.9	43.3	40.1	46.4	52.5											
18	49.3	51.4	54.5	58.0	49.7	49.9	50.0	50.5	52.1	50.5	51.5	53.4	54.6	55.4	55.0	54.3	52.7	51.3	52.2	51.5	51.6	50.9	46.7	45.5	51.8											
19	46.5	46.4	51.9	48.8	49.8	50.1	50.9	51.7	51.6	50.5	52.3	53.6	56.0	55.9	55.0	53.8	50.1	51.4	51.6	50.5	49.6	49.5	50.0	50.5	51.2											
20	50.8	51.5	52.3	51.6	50.5	52.3	50.0	50.3	50.1	50.3	52.3	55.3	57.9	58.4	58.7	55.3	52.3	48.5	52.3	51.5	50.8	50.4	50.6	50.7	52.3											
21 q	50.7	51.5	51.5	50.7	50.6	50.5	50.0	49.8	50.2	49.7	51.1	54.1	55.6	56.4	55.3	54.0	53.0	53.5	54.3	53.2	50.0	45.9	50.6	51.4	51.8											
22	51.4	51.6	51.5	51.5	51.4	51.0	50.6	50.3	49.6	51.0	51.9	54.5	56.5	55.3	55.4	54.6	53.7	52.3	52.6	52.1	48.4	50.0	51.5	51.3	52.1											
23	48.6	50.5	50.5	50.5	50.8	51.1	51.2	50.1	50.8	51.3	52.7	53.4	56.1	56.7	55.8	54.3	53.5	53.7	53.2	52.3	46.8	43.7	45.3	49.0	51.3											
24	50.0	53.9	51.9	50.5	49.6	51.6	52.1	50.9	50.8	50.8	51.0	53.8	55.3	56.6	56.3	55.2	54.5	53.8	54.1	52.4	51.6	47.2	50.5	44.4	51.8											
25 d	47.3	49.3	50.1	50.6	50.5	49.4	49.3	49.4	49.2	49.2	51.0	54.3	57.2	59.3	61.5	62.6	63.9	63.1	49.8	57.2	40.2	43.4	40.0	29.7	51.1											
26 d	38.3	49.0	29.9	22.5	35.0	39.6	46.0	48.8	50.3	52.5	51.6	53.0	56.9	56.5	55.5	55.1	56.0	55.5	50.6	53.5	54.8	45.1	43.4	39.1	47.4											
27	34.1	38.5	37.6	43.9	44.5	47.4	50.4	49.6	50.2	51.8	53.1	54.2	57.0	58.3	57.3	56.2	53.9	51.9	51.8	49.0	48.3	48.5	48.5	49.0	49.4											
28 q	49.4	48.5	50.0	51.1	49.7	50.2	50.3	49.8	49.3	49.8	51.5	53.9	55.5	55.4	54.8	54.0	53.2	51.4	50.4	50.5	51.5	51.4	51.3	51.1	51.4											
Mean	49.3	50.2	49.6	49.7	50.0	50.4	50.6	50.9	51.5	51.7	52.7	54.3	55.9	56.5	56.4	55.2	54.2	53.4	52.9	51.9	49.3	48.6	47.9	48.1	51.7											

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

17

10	LERWICK (V)												46,000γ (0.46 C.G.S. unit) +												FEBRUARY 1943											
	Hour G.M.T.																																			
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ											
1	907	903	907	913	915	915	914	915	917	918	918	919	921	923	923	923	924	926	927	929	934	943	941	918	921											
2	925	921	920	915	913	912	912	911	912	913	913	914	916	920	923	927	926	928	924	922	928	933	936	933	921											
3	931	916	912	908	909	903	900	904	907	909	911	915	922	929	934	935	940	932	924	929	956	939	923	910	921											
4 d	914	914	901	868	860	878	897	908	911	912	917	928	924	924	933	939	940	942	940	954	958	940	938	935	920											
5	912	889	899	909	912	907	908	909	906	908	909	914	923	925	929	933	943	938	933	932	944	922	921	917	918											
6	921	876	902	922	924	922	919	918	914	915	917	921	924	925	930	930	947	969	956	952	941	943	927	918	926											
7	915	906	908	914	920	924	924	922	921	920	917	916	917	918	922	926	928	931	941	943	948	943	931	918	924											
8	890	906	915	918	919	920	919	919	916	914	914	914	913	914	921	925	927	927	939	914	940	933	926	919	919											
9	917	916	916	915	916	910	908	909	911	915	914	915	915	915	916	919	923	923	924	930	925	921	919	916	917											
10 q	914	914	915	915	914	915	915	914	913	915	909	909	911	915	917	918	920	922	932	926	929	927	931	926	918											
11	919	918	913	913	905	899	893	899	907	913	914	915	915	916	917	919	921	921	923	925	926	927	926	922	915											
12 q	915	905	900	902	908	913	916	918	918	919	921	919	914	911	912	915	916	917	918	922	929	915	910	905	914											
13 d	907	906	897	894	902	901	905	908	914	918	917	916	914	916	923	923	921	919	933	935	928	927	905	911	914											
14	903	906	909	909	909	909	914	913	914	911	914	915	914	915	915	916	917	916	915	915	916	923	924	916	914											
15 q	909	904	910	910	910	910	911	908	913	915	918	917	915	916	919	920	918	917	917	917	921	919	920	919	918	915										
16	918	916	917	916	916	916	915	915	917	917	917	917	917	917	919	919	918	914	912	914	912	911	914	912	916											
17 d	910	912	913	909	862	847	877	894	919	888	917	1008	956	933	939	948	942	950	944	949	897	874	887	903	916											
18	910	914	908	881	895	908	910	914	918	916	917	918	920	926	928	928	928	929	924	922	921	921	915	914	916											
19	889	865	862	884	904	909	910	908	911	916	918	917	918	922	925	936	935	926	923	922	922	920	918	917	912											
20	917	914	915	916	917	912	911	913	914	916	918	917	918	919	920	925	931	935	926	921	918	918	917	915	918											
21 q	916	916	917	919	919	919	918	917	916	916	914	910	911	916	922	926	926	930	936	943	937	924	917	916	921											
22	918	918	919	920	919	919	917	916	915	915	915	911	910	916	917	923	922	922	924	927	931	926	917	912	919											
23	909	894	906	911	914	914	914	912	911	915	910	907	908	914	912	916	922	926	925	936	943	904	896	903	913											
24	901	895	896	898	906	909	909	914	914	916	917	917	919	920	921	921	922	930	936	932	930	919	907	884	914											
25 d	894	901	909	912	912	913	912	912	914	915	914	914	911	912	915	925	936	968	1046	1077	1020	955	940	889	934											
26 d	847	815	778	830	851	862	910	918	924	923	932	934	927	924	923	932	962	995	1023	1024	1019	914	935	951	919											
27	857	830	833	853	887	899	924	931	932	931	935	936	931	934	929	925	926	929	931	938	936	926	920	917	912											
28 q	911	912	911	904	910	915	916	920	923	926	924	924	923	922	923	926	929	931	929	926	923	923	922	922	921											
Mean	907	900	900	903	905	906	911	913	915	915	917	921	919	920	922	926	929	933	937	939	937	925	920	916	918											

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, -4γ.

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

11 LERWICK												FEBRUARY 1943							
	TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.			
	Horizontal force				Declination				Vertical force										
	Maximum 14,000γ +	Minimum 14,000γ +	Range		Maximum 11° +	Minimum 11° +	Range		Maximum 46,000γ +	Minimum 46,000γ +	Range								
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ						
1	23 1	419	372	0 0	47	14 57	59.2	39.7	23 0	19.5	22 21	950	896	1 49	54	2, 1, 1, 1, 1, 1, 3	11	0	77.5
2	8 50	408	374	23 50	34	16 40	57.5	46.5	23 24	11.0	23 54	940	909	10 0	31	1, 1, 2, 1, 2, 1, 1, 2	11	0	77.2
3	8 47	407	369	14 8	38	14 26	61.4	39.7	20 24	21.7	20 21	959	899	5 40	60	3, 1, 2, 2, 2, 2, 3, 3	18	1	77.4
4 d	22 30	401	344	11 15	57	14 24	61.0	44.6	23 44	16.4	20 21	967	850	4 20	117	2, 3, 2, 2, 2, 2, 2, 3	18	1	77.0
5	0 21	423	363	12 20	60	0 29	59.4	32.5	20 30	26.9	20 37	950	883	1 24	67	3, 1, 2, 1, 2, 3, 4, 2	18	1	77.0
6	22 22	414	336	0 57	78	0 55	60.4	35.3	22 19	25.1	17 26	978	868	1 40	110	3, 1, 2, 2, 1, 3, 3, 4	19	1	77.4
7	21 54	407	372	0 46	35	18 52	57.9	39.5	21 54	18.4	20 29	950	902	1 28	48	2, 1, 1, 1, 0, 1, 2, 3	11	0	77.0
8	19 10	435	371	20 21	64	14 7	57.7	37.1	19 8	20.6	18 50	951	878	0 34	73	2, 1, 1, 0, 0, 1, 4, 1	10	0	75.9
9	6 17	406	380	13 6	26	12 24	57.0	42.5	20 11	14.5	19 57	934	906	6 25	28	1, 1, 1, 1, 1, 0, 3, 1	9	0	75.8
10 q	7 44	402	381	13 46	21	13 37	58.0	45.0	22 40	13.0	18 36	936	908	10 56	28	0, 0, 0, 0, 1, 1, 2, 2	6	0	76.0
11	5 33	410	366	13 5	44	13 0	58.3	46.8	20 32	11.5	20 41	929	890	6 53	39	2, 1, 2, 2, 1, 0, 2, 2	12	0	76.1
12 q	21 11	422	369	12 14	53	13 16	58.7	43.5	20 42	15.2	20 15	931	898	3 58	33	2, 2, 1, 1, 1, 0, 3, 3	13	0	76.8
13 d	22 8	423	363	12 7	60	13 16	61.6	45.0	22 58	16.6	19 1	941	890	3 23	51	2, 2, 2, 1, 2, 2, 2, 3	16	1	76.9
14	0 50	404	380	22 21	24	11 20	56.4	44.4	21 51	12.0	22 5	929	892	0 54	37	2, 1, 2, 1, 1, 0, 0, 2	9	0	76.4
15 q	7 46	402	370	10 28	32	0 34	58.0	47.7	19 8	10.3	19 25	924	897	1 0	27	2, 0, 1, 1, 1, 0, 1, 0	6	0	76.7
16	20 58	419	377	10 40	42	13 14	54.7	48.1	7 36	6.6	0 4	919	906	21 0	13	1, 0, 1, 0, 1, 1, 2, 1	7	0	76.7
17 d	20 42	461	285	11 4	176	4 4	72.0	24.7	20 35	47.3	11 25	1047	824	21 10	223	2, 4, 4, 5, 3, 3, 4, 4	29	1	76.0
18	22 36	408	358	9 15	50	2 54	62.9	41.7	23 38	21.2	15 10	931	875	3 39	56	3, 3, 2, 2, 2, 1, 0, 2	15	1	76.5
19	7 6	403	355	2 13	48	12 19	58.4	42.5	0 52	15.9	16 8	940	853	2 43	87	3, 3, 1, 2, 2, 2, 2, 1	16	1	77.0
20	6 54	400	355	11 8	45	14 12	60.0	45.2	17 7	14.8	17 19	939	909	5 50	30	0, 1, 0, 2, 1, 3, 0, 0	7	0	77.4
21 q	6 47	397	371	11 46	26	13 9	57.4	42.5	21 16	14.9	19 30	944	910	11 47	34	0, 0, 0, 1, 1, 0, 2, 2	6	0	77.6
22	17 38	405	371	13 20	34	12 34	57.4	46.9	20 45	10.5	21 0	932	909	11 48	23	0, 0, 0, 1, 1, 1, 2, 2	7	0	78.1
23	1 0	413	364	21 23	49	13 10	58.1	38.5	21 46	19.6	20 24	951	883	21 53	68	2, 1, 1, 1, 1, 1, 3, 3	13	1	78.3
24	21 23	432	367	11 42	65	13 30	57.8	38.5	21 23	19.3	18 29	936	879	23 17	57	3, 2, 1, 1, 1, 1, 2, 3	14	1	78.8
25 d	19 46	541	196	23 35	345	19 14	69.2	22.7	23 44	46.5	19 50	1122	852	22 53	270	1, 1, 0, 1, 2, 3, 5, 5	18	1	78.3
26 d	18 30	472	221	0 6	251	1 51	70.2	15.8	3 4	54.4	18 29	1058	762	2 26	296	5, 4, 2, 2, 1, 3, 4, 4	25	1	78.2
27	21 37	415	294	1 20	121	13 34	59.1	30.0	1 0	29.1	19 48	942	821	1 33	121	3, 3, 1, 2, 1, 2, 2, 2	16	1	77.6
28 q	7 7	401	366	11 58	35	12 36	56.1	47.2	1 11	8.9	18 10	932	903	3 50	29	1, 1, 0, 1, 0, 1, 1, 0	5	0	78.5
Mean	- -	420	350 - -	70	- -	59.9	39.8 - -	20.1	- -	956	880 - -	75	1.6	13.0	0.46	77.1			

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

12	LERWICK (H)												14,000γ (0.14 C.G.S. unit) +												MARCH 1943											
	Hour G.M.T.																																			
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ											
1	391	392	392	392	393	396	405	400	395	390	390	390	391	390	399	375	385	376	384	389	392	392	391	394	392											
2	395	394	389	384	393	396	401	375	331	316	346	367	387	394	400	384	386	382	384	387	388	387	389	389	381											
3	384	382	381	381	383	387	392	397	392	380	361	363	372	366	378	380	383	386	389	384	378	363	376	384	380											
4	384	378	384	385	386	391	397	376	356	365	371	354	365	392	392	397	387	388	380	380	388	404	370	381	381											
5	361	388	363	345	368	375	378	355	375	374	371	368	367	375	384	394	395	395	377	382	383	385	384	381	376											
6	379	380	384	387	389	386	384	382	382	377	373	373	385	383	386	395	392	386	392	394	383	380	388	390	385											
7	388	390	389	387	391	393	389	389	383	376	372	369	368	380	388	388	392	393	401	389	381	377	373	360	384											
8	384	386	358	361	383	389	389	388	384	373	377	376	375	386	393	398	401	386	392	397	393	392	378	378	384											
9	384	371	386	391	391	393	394	384	380	376	377	380	383	383	396	392	391	383	393	400	393	396	388	392	387											
10 q	388	389	392	392	393	394	394	395	392	386	380	376	375	381	389	391	393	394	391	390	388	380	384	389	388											
11	380	379	383	389	393	396	396	391	386	376	371	371	375	373	389	402	410	415	435	409	411	372	367	378	389											
12	372	377	369	383	382	392	393	388	385	379	369	368	364	364	396	390	389	384	389	401	387	381	390	397	383											
13 q	391	384	380	383	387	388	387	384	379	368	361	360	366	380	379	384	385	388	392	394	395	396	395	398	383											
14	396	389	378	372	390	396	396	391	381	362	366	365	365	374	396	384	387	396	397	398	397	393	395	392	386											
15 q	392	393	390	392	395	395	393	389	380	367	360	362	368	380	384	392	393	390	395	400	400	400	400	400	388											
16 d	399	389	397	399	405	405	396	397	389	344	305	328	372	371	368	377	375	382	392	389	365	371	387	362	378											
17	334	384	389	389	389	390	390	389	379	368	351	345	349	367	379	384	385	392	389	391	392	394	392	397	379											
18	389	389	392	392	391	389	392	383	363	361	360	359	365	369	379	386	390	389	392	391	398	400	400	400	384											
19	398	395	393	395	397	397	396	387	379	372	370	364	372	380	387	407	392	403	411	405	400	400	394	396	391											
20 d	397	396	385	386	395	398	393	390	354	345	344	365	369	374	385	378	397	411	414	377	383	387	389	393	384											
21	395	388	383	383	388	392	382	385	379	363	354	348	358	367	379	392	388	388	402	397	408	406	401	401	384											
22	403	404	400	400	397	399	401	396	387	375	354	349	365	387	399	401	396	394	396	380	360	267	303	306	376											
23 d	273	199	266	319	333	362	360	349	349	350	352	361	366	379	390	392	387	409	400	395	408	386	389	381	356											
24	376	380	383	385	389	389	379	370	372	371	363	357	346	372	384	393	394	397	389	393	395	392	393	392	381											
25 q	390	389	389	386	378	384	397	397	394	384	370	359	360	368	376	382	384	392	397	398	397	396	395	393	384											
26	394	392	395	393	397	395	391	391	387	372	366	362	368	383	388	397	389	397	400	400	401	403	402	402	390											
27	401	396	395	397	397	400	398	393	384	373	367	362	367	375	382	383	383	390	398	401	395	391	397	396	388											
28 q	395	395	395	395	397	398	401	398	386	373	363	359	358	368	376	391	392	397	397	403	405	392	392	392	388											
29 d	390	386	388	403	394	388	387	392	387	380	376	387	385	396	415	442	384	392	428	382	227	-2	-27	58	339											
30 d	156	143	258	289	308	358	364	368	369	369	349	349	378	405	387	400	384	392	399	409	444	392	363	355	349											
31	357	270	316	342	351	375	389	380	376	372	366	367	361	376	386	413	436	426	397	395	388	380	348	360	372											
Mean	375	370	376	380	385	390	390	386	378	369	363	363	369	379	387	392	391	393	397	394	388	373	371	374	380											

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, -1γ.

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

13 LERWICK (D)													11° +											MARCH 1943												
	Hour G.M.T.																																			
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
1	51.1	51.0	51.1	50.9	50.9	50.7	50.4	50.3	49.9	50.3	51.2	53.8	56.8	58.0	59.7	57.9	60.2	55.6	54.0	53.3	51.5	50.8	49.8	49.5	52.9											
2	50.3	50.4	48.3	50.1	50.0	49.5	50.1	50.6	48.0	54.9	61.1	58.1	57.1	59.0	57.8	55.8	54.4	54.1	54.4	51.6	51.1	51.5	51.2	50.9	52.2											
3	50.0	50.0	49.6	49.1	49.2	49.5	49.4	49.4	49.3	49.2	52.9	56.8	61.1	58.6	58.3	56.6	54.8	52.7	52.9	52.3	46.1	37.0	43.2	47.7	51.1											
4	51.5	46.0	45.4	47.6	49.3	48.3	48.2	46.8	53.3	56.3	57.2	56.7	57.8	56.6	56.2	56.8	56.7	50.1	50.7	49.2	45.2	44.4	43.7	48.5	50.9											
5	45.7	47.9	48.7	50.4	44.0	45.9	49.4	56.1	53.8	52.1	51.2	52.5	54.6	57.1	56.7	57.2	54.3	39.9	49.2	49.2	50.5	44.3	46.4	49.2	50.2											
6	51.1	50.5	50.4	49.2	49.4	49.1	49.5	50.2	49.4	49.2	50.5	53.3	57.6	56.8	57.5	56.2	56.2	54.3	53.9	50.2	40.2	47.6	49.5	47.1	51.2											
7	51.3	51.6	49.5	49.2	50.5	50.5	50.1	50.0	49.4	49.2	50.9	53.9	56.2	58.7	58.2	57.3	55.0	54.9	47.3	51.1	45.6	45.4	45.5	45.3	51.1											
8	45.2	46.3	46.2	50.6	46.4	48.0	48.0	47.4	48.4	49.6	53.3	55.4	58.2	58.9	58.1	56.9	57.2	53.8	51.2	52.4	52.3	48.6	46.4	49.3	51.2											
9	48.5	47.7	52.0	50.3	50.1	50.0	49.5	52.1	51.6	52.0	54.8	55.2	57.4	56.2	56.6	55.4	55.2	53.5	52.6	52.2	50.0	53.2	50.2	48.4	52.3											
10 q	48.4	51.4	50.6	50.1	50.5	50.1	49.6	49.4	49.0	49.4	51.1	53.3	55.0	56.4	57.3	56.7	55.4	54.6	52.6	52.9	50.0	49.8	44.8	42.0	51.3											
11	45.4	48.7	50.1	47.2	46.3	48.1	49.1	48.9	48.4	49.3	51.9	54.7	57.1	57.5	57.2	57.6	59.0	59.4	64.5	58.0	53.2	41.4	39.1	49.3	51.7											
12	54.5	47.6	50.3	52.9	47.6	50.4	49.5	48.8	48.9	50.4	53.0	56.2	57.9	57.1	56.3	53.3	49.3	53.8	51.5	46.4	52.2	45.3	45.0	50.0	51.2											
13 q	50.1	51.1	53.9	50.3	48.9	48.5	48.4	48.2	48.1	49.0	50.8	52.4	53.8	55.6	54.3	53.1	51.6	51.6	51.6	51.4	51.3	50.9	50.2	48.8	51.0											
14	49.4	50.1	52.6	54.4	55.1	49.6	48.1	47.7	50.1	50.3	50.9	53.9	56.5	56.6	57.3	54.2	50.3	50.9	51.3	51.0	50.9	49.8	48.7	50.6	51.7											
15 q	50.6	50.5	50.4	50.3	49.9	49.5	48.4	47.5	47.1	48.3	51.1	54.4	56.0	56.3	54.5	53.5	51.6	51.2	51.9	52.1	51.8	51.4	50.1	49.9	51.2											
16 d	51.5	52.2	51.5	49.1	47.8	47.2	56.8	53.0	53.3	48.3	56.9	59.6	59.8	62.1	58.4	55.5	53.3	50.3	50.6	47.6	28.7	41.7	49.5	48.3	51.4											
17	46.8	48.5	48.8	49.4	49.6	49.1	48.5	47.3	45.4	46.5	50.5	55.1	57.1	57.6	57.2	55.4	52.1	50.1	50.4	50.3	50.1	46.2	47.1	49.5	50.4											
18	50.1	50.3	50.5	50.2	49.6	49.2	48.2	47.7	49.7	51.1	52.5	55.4	57.1	56.5	55.2	53.2	52.0	47.6	46.8	51.2	51.7	51.3	51.7	51.9	51.3											
19	49.5	50.6	50.5	50.1	49.6	49.1	48.0	47.3	46.4	48.6	52.3	54.3	57.1	58.4	57.1	56.8	54.4	54.2	53.6	50.1	53.3	34.7	42.3	49.4	50.7											
20 d	50.2	50.6	52.3	51.9	49.7	48.9	47.5	46.4	49.2	55.5	56.9	55.9	59.6	61.1	60.8	53.7	54.5	54.0	23.2	45.0	47.0	49.7	50.2	50.7	51.0											
21	49.9	49.6	49.8	50.2	49.5	48.5	49.5	50.9	51.5	53.2	54.7	56.4	60.2	60.4	58.5	57.2	55.0	51.6	51.4	50.1	50.3	50.4	50.6	50.1	52.5											
22	50.1	49.7	48.6	49.2	49.9	49.0	48.4	47.4	48.5	51.1	54.5	57.2	58.2	58.4	58.2	58.4	52.6	52.2	50.3	42.0	30.6	31.7	37.7	37.1	48.8											
23 d	43.0	34.4	34.5	53.6	54.5	51.0	53.0	47.8	49.5	47.2	50.9	53.0	53.3	54.2	56.3	55.6	52.1	49.5	47.3	43.0	40.1	44.4	47.4	53.0	48.7											
24	51.7	51.2	50.4	50.5	49.3	47.5	47.3	52.6	50.3	49.5	50.7	54.1	55.2	55.5	56.3	55.4	48.1	44.2	51.2	51.3	50.8	51.0	50.2	50.1	51.0											
25 q	50.3	51.1	50.3	51.6	53.0	55.2	50.6	48.9	48.3	47.9	50.1	53.4	56.2	56.8	56.3	55.1	54.1	52.5	52.1	51.5	51.8	50.4	48.8	49.6	51.9											
26	54.2	54.2	48.9	49.1	49.3	49.2	49.7	49.4	49.2	48.3	50.2	52.4	55.5	58.1	56.6	55.1	52.3	51.1	51.1	51.3	51.4	51.6	50.5	53.3	51.7											
27	50.4	49.6	49.3	48.5	48.1	48.4	47.6	46.5	46.2	48.1	50.5	52.9	55.3	56.4	56.4	55.4	53.6	52.4	48.3	47.6	44.8	48.0	50.4	50.4	50.2											
28 q	50.4	50.3	50.1	49.9	49.4	49.1	48.4	47.4	47.1	48.3	50.4	54.1	56.4	58.1	56.8	55.4	53.9	52.3	51.3	51.6	51.2	47.5	45.3	45.7	50.9											
29 d	47.4	48.8	48.6	46.8	44.3	45.5	46.6	46.0	44.6	46.2	49.7	54.9	60.8	62.8	65.1	66.1	65.0	56.5	54.6	55.1	31.7	28.4	31.7	33.9	49.2											
30 d	39.0	25.8	30.0	30.9	37.3	44.1	44.6	48.0	47.0	49.1	52.9	54.7	56.9	60.8	61.7	58.6	57.6	54.2	53.6	53.1	36.2	43.0	37.3	48.1	46.9											
31	47.5	50.5	49.7	45.9	47.8	48.5	47.0	46.6	46.7	49.5	50.3	53.5	57.1	58.6	58.2	58.1	45.8	48.2	51.7	46.2	49.1	41.0	48.2	49.7	49.8											
Mean	49.3	48.7	48.8	49.3	48.9	48.9	49.0	48.9	49.0	49.9	52.4	54.8	57.1	57.9	57.6	56.2	54.1	52.0	50.9	50.3	47.1	45.9	46.5	48.3	50.8											

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

19

14 LERWICK (V)

46,000γ (0.46 C.G.S. unit) +

MARCH 1943

	Hour G.M.T.																								
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	922	920	919	918	917	916	914	916	917	916	916	914	912	916	922	941	955	963	948	935	929	926	926	922	925
2	920	919	916	915	908	908	908	915	928	926	902	916	917	929	952	943	938	934	925	925	925	925	925	926	923
3	929	929	926	924	920	917	915	914	914	916	922	918	925	924	925	929	928	931	932	947	958	941	919	912	926
4	895	883	904	903	891	887	894	903	906	898	918	928	927	936	928	933	943	961	962	957	948	875	892	915	916
5	869	886	895	844	847	864	888	893	891	909	917	920	926	928	934	943	960	994	972	943	936	931	920	906	913
6	874	884	909	920	920	918	916	917	919	921	920	920	921	925	927	934	937	938	933	932	933	931	927	917	921
7	909	909	920	921	921	919	920	918	918	919	916	915	916	920	928	932	933	939	937	936	945	927	909	891	922
8	893	890	897	870	893	914	919	920	917	916	910	910	917	926	934	944	944	952	943	928	927	925	920	918	918
9	909	902	896	913	922	921	921	920	916	917	913	913	916	919	923	927	939	945	935	931	935	920	893	908	919
10 q	910	907	898	908	914	918	918	918	917	914	909	909	913	913	916	924	932	937	938	942	937	920	916	896	918
11	899	902	885	891	903	909	913	916	914	915	914	915	916	917	915	917	922	926	943	992	975	959	942	927	922
12	883	847	888	860	881	901	913	918	915	911	913	914	918	921	926	966	980	957	952	950	921	943	908	899	916
13 q	905	911	906	905	912	917	918	918	917	916	916	917	916	915	919	918	919	919	918	920	920	920	919	913	916
14	909	912	912	880	873	890	908	912	912	916	917	915	915	916	920	934	931	921	919	919	919	922	920	918	913
15 q	918	916	917	915	915	916	917	917	917	917	915	914	912	913	917	921	925	926	921	918	917	917	920	910	917
16 d	906	884	894	909	910	905	897	888	890	910	954	937	932	938	938	937	951	938	926	936	948	911	896	835	915
17	805	887	910	915	918	918	919	920	923	922	926	933	930	925	926	928	929	929	926	924	924	916	904	899	915
18	906	914	916	918	919	918	917	918	918	916	916	916	918	920	920	920	926	935	938	929	922	920	918	916	920
19	912	915	919	919	918	916	915	915	911	907	907	911	915	913	914	919	939	933	931	926	915	893	906	914	916
20 d	915	910	912	900	895	902	906	908	912	912	908	909	913	923	936	964	946	960	1002	949	936	927	916	910	924
21	900	895	897	906	915	915	916	907	905	907	911	919	920	920	923	930	943	953	944	946	928	922	920	918	919
22	918	917	917	916	916	916	915	915	916	914	917	912	909	910	921	942	968	954	945	946	902	810	696	738	901
23 d	632	600	712	787	790	843	880	899	915	914	917	924	942	941	931	930	936	937	949	933	904	897	891	869	870
24	881	900	908	915	917	916	919	914	910	914	913	914	923	922	921	926	945	957	935	924	922	918	915	915	919
25 q	916	917	917	915	916	904	905	912	914	917	914	913	920	918	920	921	921	921	921	920	919	918	917	914	916
26	901	896	895	908	910	913	915	913	908	908	907	906	899	902	910	918	932	936	934	930	926	920	915	894	912
27	888	905	911	915	916	917	919	918	918	915	911	909	904	903	910	918	926	928	935	932	938	930	922	918	917
28 q	915	914	914	915	915	916	918	919	922	920	918	914	911	909	911	911	915	915	916	915	917	928	925	908	916
29 d	904	900	884	882	891	900	905	907	912	910	904	901	901	902	912	942	976	947	922	932	955	892	849	770	904
30 d	800	810	850	815	766	807	857	893	918	924	931	928	925	930	949	946	933	922	930	941	940	913	885	885	892
31	899	854	840	866	878	890	903	912	921	925	927	924	926	927	935	948	984	979	984	977	965	936	846	818	915
Mean	888	888	896	896	898	904	909	912	914	915	916	916	918	920	925	932	941	942	939	937	932	917	902	894	915

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, -1γ.

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

15 LERWICK

MARCH 1943

	TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.			
	Horizontal force			Declination			Vertical force												
	Maximum 14,000γ +	Minimum 14,000γ +	Range	Maximum 11° +	Minimum 11° +	Range	Maximum 46,000γ +	Minimum 46,000γ +	Range										
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ							
1	14 31	409	363	15 50	46	16 30	62.8	48.6	23 9	14.2	17 23	964	910	12 22	54	0,1,1,1,2,3,2,0	10	0	78.6
2	6 55	409	304	9 11	105	10 42	63.0	45.4	8 41	17.6	14 19	957	895	10 41	62	1,1,4,4,2,1,1,0	14	1	78.6
3	7 44	398	349	11 1	49	12 42	62.0	32.5	21 46	29.5	20 15	962	904	23 44	58	1,0,2,2,2,1,3,3	14	1	78.7
4	21 0	467	337	11 51	130	12 31	59.3	22.5	20 57	36.8	18 14	965	858	21 49	107	3,2,3,3,2,3,4,4	24	1	78.0
5	15 59	409	314	3 21	95	7 41	60.1	36.4	17 39	23.7	17 14	1002	831	3 59	171	3,3,3,3,2,2,4,3,2	24	1	78.0
6	23 29	400	363	0 27	37	12 54	60.1	34.1	20 18	26.0	16 54	941	859	0 43	82	3,1,2,1,2,2,4,3,2	17	1	78.0
7	18 35	413	345	23 46	68	13 32	59.1	40.8	18 30	18.3	20 19	951	874	23 49	77	2,2,1,1,2,1,3,3	15	1	78.6
8	16 41	406	347	2 52	59	12 55	60.0	39.5	21 59	20.5	17 57	957	852	3 33	105	3,3,1,2,1,2,2,3	14	1	79.0
9	21 34	419	359	1 49	60	21 39	58.3	44.6	1 6	13.7	17 10	948	888	2 34	60	2,1,1,2,1,2,2,3	14	1	78.2
10 q	23 11	404	371	12 54	33	14 18	57.5	39.0	23 10	18.5	20 7	948	889	23 14	59	2,1,1,1,1,1,1,2,3	12	0	78.2
11	18 18	445	320	21 25	125	18 51	68.2	35.1	22 1	33.1	19 22	1015	876	2 44	139	3,2,0,2,2,2,4,4	19	1	78.7
12	20 0	443	344	13 2	99	20 10	70.8	30.4	19 43	40.4	16 0	1004	834	0 56	170	4,4,1,3,3,3,5,4	27	1	78.0
13 q	23 11	406	358	10 53	48	13 50	58.7	47.5	4 56	11.2	19 52	921	896	2 50	25	3,1,0,0,2,0,0,1	7	0	77.6
14	14 56	403	357	9 23	46	14 2	58.6	45.5	22 31	13.1	15 38	937	871	4 40	66	2,3,2,2,2,2,0,2	15	0	77.5
15 q	16 54	404	354	11 4	50	13 24	57.0	46.6	8 24	10.4	17 12	927	907	24 0	20	1,0,0,0,0,0,2,1,0	4	0	77.8
16 d	5 10	418	285	10 31	133	13 56	64.3	18.0	20 30	46.3	10 34	975	746	24 0	229	2,2,3,3,3,3,5,4	25	1	77.9
17	22 26	411	269	0 8	142	12 39	59.1	41.4	21 30	17.7	11 41	936	745	0 3	191	5,1,2,2,3,1,0,2	16	1	78.4
18	17 5	404	357	8 54	47	12 49	58.2	42.4	17 58	15.8	18 24	942	899	0 0	43	1,0,2,1,1,2,3,0	10	0	79.2
19	15 59	428	355	10 55	73	20 56	61.8	26.6	21 50	35.2	16 35	948	874	21 2	74	1,0,1,2,1,3,3,4	15	1	79.3
20 d	18 25	433	323	9 15	110	13 50	64.1	-3.2	18 36	67.3	18 25	1047	891	4 30	156	2,2,3,3,3,3,5,2	23	1	79.4
21	18 58	412	336	11 4	76	12 56	61.2	48.0	5 45	13.2	17 22	953	893	1 56	60	1,1,1,2,1,2,2,1	11	0	79.1
22	15 7	420	81	22 0	339	15 25	61.8	24.4	21 35	37.4	16 33	980	599	22 10	381	1,2,1,2,2,3,4,6	21	2	79.0
23 d	17 26	418	73	1 29	345	4 22	58.9	16.6	2 19	42.3	18 15	951	540	1 28	411	6,4,3,3,3,2,4,3	28	2	79.0
24	17 3	409	334	12 21	75	14 30	57.2	35.4	17 0	21.8	17 9	967	867	0 3	100	3,1,2,1,2,4,1,0	14	1	79.6
25 q	6 34	400	354	12 9	46	4 59	58.3	47.4	8 32	10.9	16 6	922	899	5 40	23	1,2,1,0,1,0,0,1	6	0	80.0
26	24 0	407	361	11 13	46	13 25	58.8	47.2	2 47	11.6	16 59	941	871	24 0	70	2,1,1,0,1,2,1,3	11	0	80.2
27	19 14	412	359	11 49	53	13 13	57.6	43.4	20 13	14.2	20 9	945	871	0 5	74	3,0,0,1,1,2,2,2	11	0	80.0
28 q	20 0	412	355	12 7	57	13 56	58.3	42.6	23 4	15.7	22 17	937	904	24 0	33	0,0,0,1,0,1,1,2	5	0	79.8
29 d	18 42	490	360	21 56	850	16 4	68.1	-7.1	21 59	75.2	20 13	1042	648	23 57	394	2,2,1,2,2,4,6,7	26	2	79.7
30 d	20 30	476	-52	0 0	528	14 13	63.7	7.2	1 20	56.5	20 19	994	688	0 0	306	6,4,4,2,3,2,5,4	30	2	79.7
31	16 44	453	235	1 26	218	16 0	60.4	34.7	16 29	25.7	16 19	1003	764	23 11	239	5,3,1,1,2,4,3,5	24	1	79.1
Mean	-	-	421	285	-	-	60.9	34.0	-	26.9	-	964	834	-	130	2.1	16.3	0.77	78.8

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

16 LERWICK (H)

14,000 γ (0.14 C.G.S. unit) +

APRIL 1943

	Hour G. M. T.																								Mean
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
1	384	362	313	333	331	345	366	372	370	361	363	362	354	379	381	382	383	402	417	394	389	385	388	370	370
2	377	371	381	380	390	391	370	372	374	371	367	364	360	367	379	388	395	394	394	392	401	386	392	381	381
3 d	315	65	278	344	329	359	366	359	368	354	331	341	365	379	399	405	423	443	405	385	385	391	385	386	357
4	387	346	341	307	376	391	387	374	371	362	360	345	371	392	390	418	409	429	459	382	394	392	394	376	381
5	357	294	251	370	385	388	384	374	357	346	350	362	373	385	377	398	529	440	391	392	389	394	343	357	374
6 d	374	365	371	385	393	400	401	398	376	328	335	337	319	364	399	421	380	383	388	394	393	381	357	370	375
7	368	348	272	370	387	397	396	388	376	368	359	360	366	366	386	395	394	394	401	394	397	392	388	385	377
8	388	390	386	388	392	391	394	383	371	364	355	350	357	368	382	384	395	399	392	392	393	394	395	396	383
9 q	393	391	388	388	388	392	393	390	383	372	364	358	359	372	378	384	390	397	401	405	405	399	389	390	386
10 d	393	389	389	384	383	384	372	359	366	356	343	356	380	376	381	381	398	406	420	450	349	363	349	310	377
11 d	289	237	177	273	153	123	200	251	286	312	355	367	372	380	393	423	434	429	402	409	402	372	362	358	323
12	383	388	386	386	387	389	389	386	380	367	361	355	355	362	374	385	394	397	400	399	397	394	393	391	383
13 q	393	390	390	390	396	398	400	395	385	374	367	363	368	378	385	395	387	393	398	401	400	402	403	400	390
14 q	394	393	395	396	397	400	401	398	396	380	368	363	364	374	381	392	397	397	404	408	406	405	406	405	393
15	402	401	401	401	401	403	403	402	397	379	371	368	372	381	380	390	425	392	422	415	403	414	410	398	397
16	397	401	399	397	409	407	395	384	388	368	363	359	358	361	373	392	413	409	412	406	403	402	401	400	392
17	399	403	394	393	398	401	391	377	376	372	363	358	367	380	397	389	396	403	406	402	398	395	396	395	390
18	397	394	394	389	369	387	389	383	376	367	364	363	362	379	391	399	402	406	405	406	403	401	401	397	389
19	398	394	391	395	392	392	388	380	373	363	358	359	369	376	376	390	399	403	406	400	397	397	398	399	387
20	398	397	397	396	396	397	397	393	384	374	372	363	352	374	394	419	398	400	408	408	412	402	395	402	393
21	418	360	308	382	389	361	376	397	386	363	352	329	356	394	406	376	409	410	406	399	390	394	395	393	381
22	393	393	393	395	397	389	389	386	359	352	350	352	357	372	381	389	390	399	401	398	400	401	398	393	384
23 q	391	393	393	393	390	389	386	380	368	358	351	355	363	376	389	393	401	398	403	402	406	403	397	397	386
24 q	397	398	399	397	395	395	393	386	375	359	352	347	361	376	391	395	399	402	403	406	406	405	406	408	390
25	406	405	390	393	388	393	385	383	381	376	372	368	360	363	389	397	390	406	410	411	413	406	372	287	385
26 d	259	233	111	196	322	276	303	339	338	328	349	378	385	377	400	401	411	434	429	428	410	376	374	360	342
27	354	313	364	378	375	375	376	372	367	360	353	355	364	371	393	388	389	405	403	408	397	391	389	388	376
28	386	385	384	379	377	376	378	372	366	362	361	361	364	372	384	394	399	406	411	419	436	406	394	379	385
29	375	367	388	389	384	377	369	349	369	365	357	355	380	379	372	375	403	414	418	423	413	397	386	376	383
30	389	393	381	347	394	387	372	366	372	360	325	358	372	368	373	389	393	411	420	415	423	391	389	375	382
Mean	378	359	353	370	375	375	377	375	371	361	356	357	363	375	386	394	404	407	408	405	400	395	388	381	380

Corrections to be applied to all values: H, -6 γ ; D, -4.2'; V, nil.

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

17 LERWICK (D)

11° +

APRIL 1943

	Hour G.M.T.																								Mean
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
1	48.4	47.2	51.0	45.0	40.0	46.2	45.5	45.4	47.1	49.7	54.3	56.2	58.1	59.2	58.8	58.2	53.4	53.4	44.0	45.0	48.9	48.9	49.5	53.7	50.3
2	48.4	45.8	45.5	44.8	44.2	43.6	44.0	48.5	46.4	48.2	51.4	55.9	57.6	59.1	57.1	52.9	52.4	51.5	50.6	50.3	50.1	47.1	46.5	48.4	49.6
3 d	38.5	49.8	27.5	28.3	42.6	48.4	47.4	48.5	48.2	49.8	52.4	57.3	60.2	59.8	57.2	53.1	51.2	44.6	49.4	53.2	51.4	49.6	47.6	55.5	48.8
4	45.0	45.4	51.3	55.0	46.4	47.7	47.4	47.7	47.3	50.4	54.1	56.2	58.2	59.7	57.3	55.0	58.7	56.5	49.3	54.7	50.2	52.0	50.5	45.2	51.7
5	42.5	36.5	44.9	48.2	44.4	46.8	45.9	47.8	50.4	52.1	51.2	53.6	55.9	60.0	60.6	59.6	46.8	46.2	55.0	52.4	51.2	44.9	49.5	35.1	49.2
6 d	46.4	53.5	55.4	47.0	46.4	45.6	46.2	44.6	43.5	49.9	52.9	57.8	62.8	60.4	60.1	53.3	53.5	53.1	51.9	51.1	47.9	46.5	50.7	58.7	51.6
7	39.6	50.4	60.2	52.5	44.9	44.8	45.7	46.4	45.3	47.3	50.1	53.3	57.0	57.0	55.0	53.2	52.3	51.7	51.0	41.8	47.8	47.4	50.0	51.6	49.8
8	54.4	49.8	46.6	48.9	49.0	48.4	47.5	47.6	46.4	46.9	49.7	51.5	53.3	54.5	54.5	53.5	52.1	49.9	50.2	50.3	50.2	50.1	49.7	49.7	50.2
9 q	49.1	48.9	48.8	48.5	48.1	47.5	46.2	44.8	44.2	46.5	48.1	50.4	52.5	54.4	54.4	53.3	53.0	51.9	51.2	51.2	51.7	50.3	48.2	43.3	49.4
10 d	44.7	48.0	47.5	47.4	42.5	47.1	54.8	51.8	49.0	48.0	48.1	53.0	55.4	58.7	59.1	57.3	54.9	51.9	53.1	42.2	41.2	43.5	38.5	38.2	49.0
11 d	22.5	29.6	38.2	41.3	55.1	59.1	58.5	53.9	50.2	51.2	52.5	54.3	55.3	58.1	60.2	61.4	58.2	59.5	55.4	52.1	46.5	49.1	47.0	50.8	50.8
12	46.2	47.2	47.7	47.3	47.4	46.9	46.8	47.2	47.4	50.1	51.3	53.4	55.5	56.3	55.0	53.1	51.7	51.2	50.7	51.0	49.5	47.8	48.1	49.0	49.9
13 q	49.1	48.8	48.4	48.2	46.7	47.0	47.1	46.4	46.8	46.5	48.3	51.0	53.8	55.6	54.6	53.1	52.1	51.0	51.0	51.3	51.8	51.0	48.4	47.1	49.8
14 q	49.5	49.5	49.2	48.8	48.4	47.9	46.3	45.3	45.3	46.2	47.4	50.6	54.3	56.3	56.0	55.0	54.3	53.2	52.2	51.8	52.0	51.0	50.5	50.1	50.5
15	49.9	49.2	48.2	47.6	47.0	46.2	45.3	44.3	44.3	46.4	49.4	53.4	57.5	58.3	57.0	56.8	57.4	55.5	53.9	52.1	51.1	50.2	48.4	49.9	50.8
16	42.5	47.5	48.3	49.1	47.3	48.4	50.4	54.3	49.1	48.2	49.1	53.0	55.9	58.3	57.0	53.2	53.4	50.8	50.1	50.3	48.3	50.0	49.8	49.4	50.6
17	53.2	48.2	46.7	46.5	45.6	44.7	45.6	46.3	46.9	48.2	49.3	51.4	54.0	55.1	55.1	54.0	52.5	51.4	51.0	50.0	50.2	48.4	49.3	49.5	49.7
18	51.4	49.9	49.1	48.9	50.3	49.2	46.5	44.6	44.9	46.5	49.6	53.0	55.9	56.4	55.7	54.4	53.3	52.5	51.8	51.2	50.2	50.3	50.0	49.2	50.6
19	48.9	48.3	50.1	50.3	49.0	46.1	45.7	44.6	45.4	47.5	49.0	52.5	55.6	56.9	55.2	53.4	52.0	51.0	50.1	49.4	49.3	49.2	49.6	49.7	49.9
20	49.2	49.4	49.0	48.6	48.4	49.3	48.1	46.2	45.7	48.1	51.1	55.2	57.4	50.3	57.4	56.1	54.7	51.1	51.7	50.6	49.8	47.4	44.9	50.0	50.7
21	49.4	41.5	46.7	51.3	45.5	42.8	49.1	46.2	45.2	47.0	51.5	57.1	60.0	63.1	61.0	56.8	52.8	51.2	50.0	40.0	44.9	50.2	50.0	50.0	50.1
22	49.8	49.6	48.6	48.6	48.6	49.2	48.9	46.9	46.5	49.5	51.9	52.6	55.1	55.8	54.6	51.7	50.2	49.0	49.2	49.2	49.7	46.3	47.5	48.6	49.9
23 q	48.8	49.2	49.2	49.1	48.3	46.8	45.3	44.8	45.4	48.0	50.7	53.6	56.2	56.2	55.1	53.1	52.6	51.7	50.8	50.7	51.1	51.0	49.4	48.9	50.3
24 q	49.0	48.3	48.2	48.2	47.5	47.8	46.2	46.3	46.7	48.2	50.2	53.0	55.3	55.7	54.9	52.2	51.4	50.9	50.5	50.7	50.9	50.5	49.4	49.7	50.1
25	50.4	51.5	53.9	51.3	46.9	47.3	49.8	49.3	48.2	49.2	51.1	55.1	57.8	59.2	58.5	56.7	52.1	50.7	51.8	51.7	51.6	41.3	41.7	41.6	50.8
26 d	32.7	22.7	25.0	28.6	43.9	47.3	47.3	54.4	48.2	52.7	55.2	57.8	57.9	56.1	55.3	53.1	54.7	56.0	53.2	52.6	50.1	46.4	48.4	42.5	47.6
27	41.7	49.8	45.3	44.7	43.5	43.3	45.2	47.4	48.6	50.1	51.7	52.7	54.2	54.2	53.2	51.3	51.2	51.5	50.0	48.3	49.3	49.9	49.7	49.2	49.0
28	49.1	48.6	47.0	44.8	45.9	45.6	44.3	44.0	45.8	48.9	51.6	53.5	54.2	54.0	53.0	52.2	52.2	53.1	53.2	53.1	53.1	48.6	49.1	43.4	49.5
29	39.9	40.5	48.0	47.4	45.5	44.7	44.4	49.8	51.6	50.1	52.6	53.3	53.8	55.2	54.4	52.4	51.6	50.8	50.9	50.2	48.3	46.4	45.4	42.2	48.7
30	43.9	45.9	46.4	38.5	43.7	43.9	41.9	46.1	45.0	47.7	54.8	56.2	59.1	59.7	57.1	55.0	54.0	53.9	53.3	51.6	43.4	44.2	46.9	47.4	49.1
Mean	45.8	46.3	47.1	46.5	46.4	47.0	47.1	47.4	46.8	48.6	51.0	53.9	56.3	57.4	56.5	54.5	53.0	51.9	51.2	50.0	49.4	48.3	48.1	47.9	49.9

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

21

18	LERWICK (V)												46,000γ (0.46 C.G.S. unit) +																			APRIL 1943				
	Hour	G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean									
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ									
1	901	911	866	830	849	862	878	901	912	920	923	930	935	941	952	965	973	961	965	953	947	940	926	904	919											
2	881	853	882	890	876	871	885	898	901	906	912	918	922	927	949	957	939	928	927	925	926	897	906	900	907											
3 d	791	700	705	779	809	834	846	880	891	911	923	930	921	938	939	953	959	967	955	938	928	920	896	817	880											
4	832	863	852	806	829	872	890	905	913	917	918	922	914	918	955	955	957	973	1016	908	922	919	912	892	907											
5	819	808	809	847	893	913	918	917	918	914	913	917	924	928	937	932	994	1024	970	961	941	897	782	806	903											
6 d	857	865	850	896	915	917	917	915	918	931	930	932	941	939	948	1017	987	966	945	936	937	920	853	811	918											
7	821	860	792	793	857	894	906	912	917	916	915	913	921	932	939	953	953	937	938	947	921	920	917	910	903											
8	877	889	899	914	918	920	924	924	923	921	925	923	921	919	923	926	924	928	928	926	925	921	920	917	918											
9 q	918	920	922	922	924	923	923	921	921	919	916	913	911	910	911	914	915	920	921	921	921	922	922	915	919											
10 d	914	917	920	919	913	904	884	885	905	922	938	951	984	972	952	952	964	964	965	1009	898	901	846	760	922											
11 d	743	744	678	676	623	725	804	849	889	910	940	949	950	942	949	969	992	1005	993	978	991	946	891	820	873											
12	855	907	922	927	928	927	925	926	925	928	930	927	928	926	926	926	930	927	928	929	931	928	917	919	923											
13 q	916	919	919	921	919	920	919	922	922	922	922	918	913	915	916	921	927	927	926	923	923	923	922	919	921											
14 q	920	922	921	921	920	918	919	917	917	921	921	921	921	919	919	918	920	921	922	924	926	926	924	922	921											
15	922	921	920	920	917	915	912	907	906	911	911	911	912	916	921	915	920	934	926	938	943	927	921	889	918											
16	878	910	914	913	908	908	909	902	901	914	919	923	923	929	932	941	933	930	929	933	932	923	923	906	918											
17	897	889	904	912	915	914	914	915	910	913	917	920	919	922	927	936	931	930	929	927	922	922	919	918	918											
18	908	908	914	913	903	904	911	916	917	914	909	908	910	909	911	913	915	917	919	917	916	915	915	918	913											
19	918	916	916	900	904	909	914	915	915	913	912	909	907	911	916	917	916	916	915	919	918	917	915	915	913											
20	917	919	919	920	919	916	912	914	913	909	909	910	915	907	907	913	937	942	928	919	918	923	923	912	918											
21	839	812	759	824	862	869	862	879	895	905	909	921	918	922	952	963	937	944	939	966	938	921	918	915	899											
22	915	918	921	923	920	923	919	918	919	919	917	920	906	910	915	921	926	928	926	924	921	919	907	912	919											
23 q	915	917	918	920	921	921	922	919	916	914	913	909	908	908	911	914	914	919	919	919	914	915	918	917	916											
24 q	914	917	918	919	923	922	923	922	920	916	913	909	903	904	906	910	914	918	919	919	919	917	915	911	915											
25	911	905	891	881	897	898	897	896	901	905	905	903	905	905	909	923	940	943	937	932	926	923	901	780	905											
26 d	717	706	673	672	674	754	815	857	894	905	911	918	927	926	932	947	961	983	996	987	963	889	905	902	867											
27	887	836	847	904	917	919	924	928	929	925	921	917	913	919	930	937	927	921	924	926	926	924	923	922	914											
28	919	912	912	915	917	912	911	915	913	911	911	912	911	913	912	910	911	910	910	909	908	946	941	900	914											
29	884	886	880	895	905	912	916	914	899	904	910	911	909	916	927	924	922	935	938	941	927	918	910	908	912											
30	895	899	904	863	870	892	895	880	880	894	910	897	904	920	913	918	921	919	928	930	925	914	906	888	903											
Mean	876	875	868	875	882	893	900	906	910	914	917	919	920	922	928	935	939	941	939	936	928	920	906	887	910											

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, nil.

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

19 LERWICK													APRIL 1943					
	TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +		
	Horizontal force				Declination				Vertical force									
	Maximum 14,000γ +	Minimum 14,000γ +	Range		Maximum 11° +	Minimum 11° +	Range		Maximum 46,000γ +	Minimum 46,000γ +	Range							
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ						
1	18 31	439	291	2 48	148	13 56	60.6	33.6	18 24	27.0	18 19	982	816	3 15	166	4, 3, 3, 2, 2, 3, 3, 3		
2	21 11	416	345	1 22	71	14 8	60.3	41.4	5 14	18.9	14 59	967	843	1 32	124	3, 2, 2, 1, 3, 2, 1, 2		
3 d	17 45	460	-80	1 39	540	1 16	63.1	18.8	3 9	44.3	17 26	989	649	1 4	340	7, 5, 3, 2, 3, 4, 3, 4		
4	18 57	558	255	3 21	303	19 11	81.8	26.6	18 54	55.2	18 40	1059	787	3 54	272	4, 5, 2, 2, 3, 3, 5, 3		
5	16 40	663	171	2 30	492	22 34	65.2	21.6	16 52	43.6	16 38	1070	745	22 32	325	5, 4, 2, 2, 3, 6, 3, 5		
6 d	15 23	473	282	12 8	191	12 10	65.8	40.5	0 0	25.3	15 29	1034	791	23 52	243	4, 3, 3, 3, 4, 4, 2, 4		
7	14 54	414	214	2 35	200	2 43	68.9	29.3	19 45	39.6	15 36	956	746	2 51	210	5, 5, 2, 2, 3, 2, 4, 3		
8	17 25	404	347	11 40	57	0 28	57.0	44.0	9 39	13.0	18 4	932	874	0 50	58	3, 1, 2, 2, 2, 1, 0, 0		
9 q	20 5	409	357	11 46	52	14 14	55.3	42.3	23 35	13.0	20 11	926	908	13 12	18	1, 0, 1, 0, 1, 1, 1, 2		
10 d	19 41	512	234	23 16	278	13 34	60.8	22.6	19 44	38.2	19 34	1051	744	24 0	307	2, 3, 3, 3, 3, 2, 5, 5		
11 d	17 2	446	-32	2 16	478	4 27	66.2	17.8	0 27	48.4	17 48	1010	584	4 37	426	6, 6, 5, 4, 2, 3, 3, 5		
12	18 4	403	351	12 55	52	13 16	57.1	41.3	0 0	15.8	20 51	935	820	0 4	115	4, 0, 0, 1, 1, 2, 1, 1		
13 q	22 54	409	362	11 26	47	13 26	56.2	45.4	23 1	10.8	16 19	928	912	12 55	16	0, 1, 0, 1, 0, 2, 0, 2		
14 q	19 43	415	360	11 53	55	13 20	56.8	44.3	7 54	12.5	20 10	927	916	16 6	11	0, 0, 0, 1, 1, 2, 1, 0		
15	16 27	451	359	11 50	92	13 48	59.8	43.3	7 50	16.5	20 16	948	854	24 0	94	0, 1, 0, 1, 2, 3, 2, 3		
16	18 59	432	339	12 6	93	13 43	59.7	39.5	0 19	20.2	15 35	947	854	0 5	93	3, 2, 3, 2, 2, 3, 2, 1		
17	17 46	416	347	11 45	69	14 34	56.9	42.7	6 2	14.2	15 25	937	879	1 1	58	3, 1, 2, 2, 2, 2, 1, 1		
18	15 56	411	358	10 58	53	13 15	57.2	43.7	7 54	13.5	18 33	920	895	4 40	25	2, 2, 2, 1, 1, 1, 0, 1		
19	18 47	410	355	11 39	55	13 9	58.0	44.3	7 3	13.7	19 35	921	892	3 36	29	2, 2, 1, 1, 2, 1, 1, 0		
20	15 39	436	339	12 7	97	13 35	59.1	39.4	22 8	19.7	17 6	952	903	13 55	49	0, 1, 1, 2, 2, 3, 1, 3		
21	0 30	444	279	2 5	165	13 18	65.6	31.5	19 26	34.1	19 24	990	724	2 17	266	5, 3, 3, 3, 3, 3, 3, 1		
22	22 0	417	338	9 47	79	13 24	56.2	43.2	21 30	13.0	17 48	931	904	22 9	27	1, 1, 2, 2, 2, 1, 0, 2		
23 q	18 24	406	347	11 7	59	13 0	56.6	44.3	7 41	12.3	6 4	922	907	12 41	15	0, 1, 0, 1, 0, 1, 0, 1		
24 q	23 31	411	341	11 3	70	12 59	56.2	45.4	6 49	10.8	6 59	923	901	12 51	22	0, 0, 0, 1, 2, 0, 0, 0		
25	21 3	431	245	23 31	186	13 43	59.8	23.5	23 53	36.3	17 31	946	720	23 23	226	2, 2, 1, 1, 2, 3, 2, 5		
26 d	17 29	450	46	2 35	404	12 10	59.3	-1.5	1 54	60.8	18 3	1003	610	3 6	393	6, 6, 5, 4, 2, 3, 4, 3		
27	19 27	417	270	1 29	147	1 24	59.0	40.2	0 52	18.8	15 30	940	795	1 46	145	4, 2, 2, 1, 2, 2, 2, 0		
28	20 49	442	359	11 15	83	12 45	54.3	38.4	23 58	15.9	21 41	962	886	23 58	76	1, 1, 1, 1, 0, 1, 2, 3		
29	20 7	436	343	7 34	93	14 0	56.2	37.3	1 39	18.9	19 49	943	875	2 35	68	3, 2, 3, 2, 3, 3, 3, 2		
30	20 28	439	311	10 7	128	13 12	62.5	35.8	3 36	26.7	20 17	937	842	3 52	95	2, 3, 3, 3, 3, 2, 3, 3		
Mean	- -	442	281 - -	161	- -	60.4	35.3 - -	25.0	- -	963	819 - -	144	- -	2.1	-	17.2	0.70	79.6

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

20 LERWICK (H)		14,000 γ (0.14 C.G.S. unit) +																				MAY 1943						
	Hour	G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	
1 d	386	386	314	288	312	218	206	277	324	291	354	404	366	435	474	470	460	472	459	384	369	211	209	161	343	370	382	386
2	258	348	354	354	349	356	357	361	340	333	340	350	351	370	387	432	433	433	416	418	402	387	379	383	370	382	386	386
3	340	370	381	378	377	378	372	364	358	354	354	358	366	375	382	401	426	442	420	413	412	390	367	399	382	386	386	
4	386	397	396	393	373	362	371	375	366	351	349	350	358	370	376	384	400	397	407	410	415	400	402	387	382	386	386	
5	393	384	391	388	387	390	380	368	362	370	362	379	353	385	383	379	400	401	405	408	404	402	397	396	386	386	386	
6	387	385	386	391	391	392	388	380	369	359	353	359	362	371	390	384	394	395	408	411	408	404	401	400	386	386	386	
7 q	398	394	383	371	390	393	387	379	369	362	354	354	364	376	382	386	388	393	399	404	401	401	400	402	385	385	385	
8 q	399	397	399	396	396	396	393	388	379	367	359	362	373	382	392	393	400	408	408	407	406	402	400	399	392	392	392	
9 q	397	396	396	393	393	389	384	377	368	362	361	362	368	376	376	390	392	405	412	409	406	402	402	401	388	388	388	
10	404	402	400	396	396	396	396	388	381	377	371	367	370	369	384	392	404	434	443	427	418	414	411	407	398	398	398	
11	407	401	399	400	399	398	396	391	383	368	358	363	368	378	391	409	427	429	431	423	426	418	415	414	400	400	400	
12	407	408	412	380	384	395	395	370	360	365	356	344	353	370	391	395	403	409	415	413	408	403	406	408	390	390		
13	405	406	409	409	417	413	401	376	373	382	373	356	354	368	409	399	433	465	436	423	412	390	397	388	400	400		
14	389	387	355	359	378	385	384	379	370	347	355	349	369	371	379	391	391	413	414	413	407	410	397	394	383	383		
15 d	301	299	258	195	256	320	345	333	333	349	346	330	345	376	393	384	393	408	412	410	412	404	397	397	350	350	350	
16	393	393	393	395	396	393	385	377	369	354	347	368	358	362	391	414	410	439	437	432	409	397	394	391	392	392		
17	388	375	380	395	400	398	388	380	379	361	355	344	351	366	379	402	405	418	427	437	457	411	373	333	388	388		
18 d	329	294	202	298	273	320	321	363	363	358	335	353	365	380	387	429	405	401	431	412	406	396	377	383	358	358		
19	395	384	376	385	290	332	379	348	356	353	350	354	358	384	387	408	396	396	409	418	418	394	387	383	377	377		
20	386	378	390	386	384	380	375	372	365	358	357	363	377	385	389	389	389	396	404	409	404	400	400	389	384	384		
21 q	388	379	384	386	385	386	383	379	366	354	346	357	370	376	383	396	399	404	409	414	409	404	400	397	386	386		
22 q	397	394	392	392	386	384	381	371	368	362	357	362	376	382	390	396	407	412	412	409	404	400	401	402	389	389		
23	404	401	400	398	393	376	375	379	374	367	365	363	369	393	384	393	401	405	424	413	416	397	388	391	390	390		
24 d	368	296	144	368	394	384	379	366	361	361	362	365	367	404	412	444	482	464	476	439	398	399	344	274	377	377		
25	347	315	294	368	368	366	373	334	346	367	369	379	396	421	368	407	422	417	435	437	404	387	379	384	378	378		
26	357	360	365	371	383	375	371	371	374	367	368	367	375	387	388	401	415	423	422	418	409	402	387	378	385	385		
27	370	382	381	373	368	370	372	365	362	358	356	364	384	394	391	397	401	412	423	430	416	408	392	373	385	385		
28 d	370	298	212	358	327	328	351	365	363	345	344	364	378	401	405	418	420	430	445	417	412	397	362	337	369	369		
29	403	390	385	334	348	376	368	359	357	361	355	359	366	371	383	383	396	407	418	414	413	404	393	392	381	381		
30	394	383	366	383	391	379	361	355	370	366	362	365	375	394	384	386	394	412	415	413	405	401	406	389	385	385		
31	393	392	394	395	392	385	381	375	367	363	363	366	370	382	397	392	394	410	410	421	418	416	418	413	392	392		
Mean	379	373	358	370	370	371	371	367	364	358	356	361	366	382	391	401	409	418	422	416	410	395	386	379	382	382		

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, +1γ.

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

21	LERWICK (D)												11° +												MAY 1943											
	Hour G.M.T.																																			
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
1 d	44.5	38.7	42.9	48.2	50.2	55.0	55.2	52.5	48.8	52.2	53.3	52.8	58.5	60.0	56.2	59.9	59.6	55.9	53.2	51.6	46.2	46.7	40.5	41.8	51.0											
2	50.2	42.5	40.6	38.9	38.6	44.3	44.7	45.6	47.1	44.8	49.9	51.5	54.8	58.5	59.9	52.3	48.7	52.6	48.8	48.5	48.7	48.3	44.7	48.8	48.1											
3	54.6	50.7	48.3	47.2	47.0	46.7	45.4	44.2	43.7	46.2	49.7	53.6	56.5	57.2	57.4	56.0	50.8	51.9	53.2	52.7	50.9	47.9	43.1	35.9	49.6											
4	42.3	45.7	47.6	47.6	47.2	48.2	48.6	45.7	47.8	50.2	52.7	54.0	54.1	54.4	54.3	53.3	52.9	53.4	53.5	52.7	51.6	46.7	45.1	48.0	49.9											
5	48.1	48.2	47.3	47.4	47.5	46.5	44.5	44.8	46.7	48.8	50.0	54.3	56.9	58.6	57.1	55.2	53.9	52.6	51.5	51.1	50.1	46.3	45.5	48.5	50.1											
6	55.1	50.3	47.3	45.6	44.7	43.7	43.6	44.0	44.6	47.3	51.2	54.3	55.8	55.1	55.1	54.2	53.0	51.8	52.0	51.3	50.9	50.2	49.6	48.9	50.0											
7 q	48.2	48.8	49.7	52.8	48.2	44.5	42.7	43.8	44.9	48.1	51.2	54.1	55.9	55.4	53.3	52.1	50.8	50.2	50.3	50.2	50.2	49.6	49.8	49.2	49.7											
8 q	47.3	47.2	47.9	46.4	46.1	45.8	45.8	45.5	46.8	50.4	53.2	55.3	56.3	55.1	53.2	52.2	51.3	51.4	51.3	51.3	50.3	50.2	50.1	49.5	50.0											
9 q	49.1	48.7	47.9	47.0	46.1	44.3	43.3	43.5	46.9	50.6	51.6	54.1	56.3	56.8	55.1	52.7	50.8	50.3	50.2	49.9	50.3	50.3	50.6	50.0	49.9											
10	49.8	49.0	47.6	45.2	43.9	43.2	42.3	42.6	44.8	47.5	50.2	54.6	57.0	55.6	55.4	55.1	53.6	53.0	53.8	54.0	53.1	52.1	51.4	50.0	50.2											
11	49.5	47.3	46.5	45.4	44.7	42.2	41.5	42.3	45.4	48.6	51.4	53.8	55.5	56.1	56.0	55.4	55.9	53.2	52.4	52.4	52.6	45.9	44.9	47.9	49.5											
12	48.4	49.6	49.7	57.1	54.6	44.1	42.1	45.3	47.3	48.6	52.6	56.1	56.6	55.7	54.3	53.2	52.3	51.9	50.5	50.3	48.1	50.3	50.0	49.3	50.7											
13	48.3	48.4	47.5	45.3	45.0	44.7	43.5	45.9	47.8	50.2	50.7	51.8	55.3	55.3	55.0	55.5	53.9	47.3	51.1	52.4	49.5	45.2	47.3	48.2	49.4											
14	48.3	49.1	54.4	52.2	45.8	43.5	42.1	42.6	44.1	48.2	50.0	52.4	52.7	52.6	52.7	52.4	52.0	50.9	51.3	51.0	50.7	49.2	44.2	41.6	48.9											
15 d	43.4	42.9	37.0	50.4	58.2	52.8	48.8	51.1	52.5	50.3	52.2	51.3	54.1	53.9	54.2	51.8	49.3	49.1	49.4	50.1	45.2	48.0	45.8	46.7	49.5											
16	46.7	47.3	47.1	46.1	44.5	43.9	44.0	43.1	43.5	48.1	51.8	53.7	58.1	58.1	55.6	54.3	53.0	52.4	47.2	50.3	44.1	49.3	50.0	48.6	49.2											
17	50.5	56.0	50.9	47.4	44.9	42.2	49.0	49.3	46.2	49.3	50.1	54.7	56.1	55.6	54.7	54.9	52.2	46.8	48.7	51.2	49.2	60.5	47.3	53.4	50.9											
18 d	58.4	55.1	42.8	35.8	50.6	60.3	55.6	45.9	40.3	45.4	47.3	48.3	52.3	55.4	54.3	49.8	51.6	51.1	49.5	46.7	48.5	50.8	51.7	45.7	49.7											
19	46.2	49.2	51.2	48.1	60.9	56.3	49.1	49.2	47.9	47.3	49.6	52.2	55.2	54.4	54.6	55.1	54.1	53.0	52.3	51.2	43.0	41.9	46.9	47.6	50.7											
20	47.5	49.3	48.3	47.2	46.2	45.4	44.5	44.7	45.5	47.3	48.6	52.2	52.2	53.7	54.3	54.0	51.9	50.6	49.1	49.0	50.1	50.1	51.0	51.6	49.3											
21 q	46.2	48.9	47.5	46.5	45.4	44.3	45.6	45.5	45.3	48.2	50.6	51.5	53.1	53.4	54.2	54.2	52.9	49.9	49.5	49.0	50.2	50.3	50.2	49.8	49.3											
22 q	49.0	48.3	47.3	45.8	44.4	43.5	41.9	43.3	43.6	45.7	50.2	53.0	55.4	54.2	53.0	52.1	51.2	49.8	50.9	50.3	50.4	50.2	49.1	49.0	48.8											
23	48.7	48.4	47.7	46.8	45.7	45.3	45.5	45.8	45.7	50.1	51.6	55.5	56.6	58.0	57.4	57.2	55.5	54.4	53.3	53.3	50.5	44.5	43.9	44.3	50.2											
24 d	42.9	31.8	35.2	36.7	42.5	39.6	40.3	41.2	44.4	47.1	50.1	53.1	54.8	56.5	58.3	57.7	57.2	58.2	59.0	56.0	52.1	47.0	39.5	39.1	47.5											
25	40.3	43.3	45.2	40.0	39.1	42.5	41.2	45.0	50.6	49.3	49.2	50.7	53.2	55.8	55.8	56.7	55.5	54.5	49.8	52.2	51.4	44.5	45.2	44.6	48.1											
26	47.6	47.2	47.4	44.9	43.4	43.1	44.0	45.2	45.7	47.6	48.8	51.1	53.2	55.2	54.3	54.1	54.8	53.2	52.0	52.3	53.2	48.2	44.0	40.1	48.8											
27	46.6	43.3	39.1	36.8	42.4	45.1	47.5	48.3	48.0	48.8	50.4	53.1	54.4	55.3	55.2	55.6	57.2	55.5	55.4	50.2	50.3	46.5	47.6	44.5	49.0											
28 d	39.1	39.4	54.2	48.2	42.8	46.3	50.1	48.0	45.9	48.3	48.8	51.1	54.0	54.0	55.2	53.1	52.8	52.9	51.2	51.3	49.8	50.8	54.1	42.8	49.3											
29	41.4	43.1	43.3	43.6	49.7	45.9	44.7	44.5	44.5	45.2	47.9	49.6	51.4	52.3	52.1	52.0	52.2	51.7	51.0	47.5	47.6	48.4	49.3	49.3	47.8											
30	48.4	49.0	52.4	49.0	45.1	43.5	43.5	45.7	45.5	46.1	47.2	49.4	51.7	54.1	54.2	53.6	51.6	50.2	49.5	49.4	49.5	49.1	46.3	47.5	48.8											
31	46.8	46.5	46.5	46.0	45.7	44.5	42.5	42.7	43.2	44.5	46.5	49.6	53.4	55.1	55.6	55.2	53.0	52.5	51.5	51.3	51.2	50.1	47.5	45.5	48.6											
Mean	47.5	46.9	46.7	46.0	46.5	45.8	45.3	45.4	46.0	48.1	50.3	52.7	54.9	55.5	55.1	54.2	53.1	52.0	51.4	51.0	49.7	48.7	47.2	46.7	49.4											

22	LERWICK (V)							46,000γ (0.46 C.G.S. unit) +																	MAY 1943							
	Hour G.M.T.																															Mean
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ						
1 d	857	872	856	750	748	785	777	831	878	919	942	982	950	967	1006	1010	1001	984	968	956	925	868	782	671	887							
2	720	805	831	843	873	896	905	919	922	951	936	928	934	945	962	994	976	958	952	948	934	918	906	893	910							
3	866	884	912	922	926	926	928	928	923	918	916	913	917	928	939	947	975	973	964	951	952	932	873	837	923							
4	877	901	917	921	916	907	908	912	914	914	916	914	915	923	927	928	931	931	930	925	925	938	911	911	917							
5	916	919	920	924	923	922	924	923	916	905	908	909	922	926	938	945	939	939	934	928	925	923	922	919	924							
6	892	878	906	919	924	924	927	924	922	915	912	909	912	917	923	938	941	939	934	928	921	919	918	914	919							
7 q	913	914	918	905	900	910	919	922	921	915	909	906	905	909	915	920	923	924	922	922	921	919	916	900	915							
8 q	897	900	902	913	919	922	922	924	923	915	904	898	901	906	911	918	919	918	920	921	921	919	916	917	914							
9 q	916	914	915	918	921	922	922	922	920	912	906	904	903	903	908	913	922	920	924	926	924	920	916	915	916							
10	913	914	912	917	920	920	919	916	911	902	899	901	899	905	907	913	918	922	930	934	928	925	921	921	915							
11	916	919	919	920	920	920	917	914	911	911	912	911	913	914	914	912	916	923	928	927	919	917	901	904	916							
12	906	905	904	897	856	884	903	912	914	913	911	908	909	916	915	919	920	921	924	926	930	924	920	916	911							
13	915	915	913	913	912	911	913	914	916	922	930	937	930	931	955	964	987	974	967	955	944	916	905	916	937							
14	919	916	898	853	881	905	915	920	919	929	927	925	923	926	926	931	932	929	929	928	928	925	922	882	916							
15 d	817	686	659	681	737	793	859	878	893	909	920	941	942	934	944	947	937	930	925	923	930	911	898	904	871							
16	915	921	922	921	919	915	914	913	911	912	913	917	932	939	936	933	940	956	970	964	943	923	925	901	927							
17	901	885	868	885	902	919	909	901	906	917	923	926	924	925	935	939	964	980	966	940	911	837	875	798	910							
18 d	735	782	738	751	798	742	804	863	906	923	932	960	964	944	940	950	954	935	933	949	937	888	807	878	876							
19	907	884	822	864	830	805	852	885	896	906	913	917	924	944	954	948	956	942	928	929	915	912	910	908	902							
20	904	907	911	919	923	925	928	923	921	917	912	916	921	926	931	936	936	936	935	931	929	924	920	908	922							
21 q	890	897	910	922	925	923	924	923	924	920	918	915	916	916	916	920	923	928	928	928	922	919	919	917	918							
22 q	919	921	923	926	925	925	922	918	909	905	906	904	905	911	914	920	925	928	926	928	925	922	919	916	918							
23	914	915	918	920	920	923	910	905	901	895	893	899	904	910	919	914	928	925	925	933	927	924	911	892	914							
24 d	852	759	646	776	870	905	914	915	911	909	906	896	895	904	923	955	1002	1002	992	967	940	922	848	768	891							
25	804	822	790	852	886	889	890	906	895	907	915	916	927	952	970	945	967	966	965	950	937	918	901	893	907							
26	875	865	874	895	911	920	919	918	916	916	913	912	910	909	914	923	938	953	954	941	912	913	894	858	911							
27	842	827	854	879	876	881	879	888	899	910	913	911	907	912	915	919	917	918	918	929	930	890	812	808	889							
28 d	821	837	790	771	830	855	868	891	915	930	938	939	932	938	954	978	958	938	927	931	931	927	861	816	895							
29	837	874	884	875	842	874	895	905	911	913	914	912	912	923	928	930	921	916	922	933	927	922	919	918	904							
30	916	915	894	886	895	902	905	907	905	910	910	911	911	910	920	921	923	925	924	922	922	920	906	907	911							
31	910	915	918	917	919	921	920	920	917	914	912	910	908	905	907	916	915	919	919	916	917	916	908	901	914							
Mean	877	876	869	876	885	893	900	908	911	915	915	918	918	923	931	937	942	940	938	935	927	915	896	881	909							

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, +1γ.

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

23 LERWICK												MAY 1943			
	TERRESTRIAL MAGNETIC ELEMENTS										3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.	
	Horizontal force			Declination			Vertical force								
	Maximum 14,000γ +	Minimum 14,000γ +	Range	Maximum 11° +	Minimum 11° +	Range	Maximum 46,000γ +	Minimum 46,000γ +	Range						
1 d	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ	h. m. γ	γ	5,5,5,5,4,4,6,6	40	2	81.0
2	17 35 532	58 21 51	474	6 48 72.0	25.8 22 16	46.2	17 34 1025	620 23 39	405	6,3,2,3,3,4,2,3	26	1	81.4		
3	16 0 476	46 0 1	430	0 6 65.5	34.5 15 58	31.0	15 54 1012	636 0 2	376	3,0,2,1,2,4,2,4	20	1	81.9		
4	17 6 479	312 22 54	167	17 33 59.8	25.7 23 2	34.1	16 55 1005	816 23 5	189	3,2,2,1,1,2,1,3	15	0	82.1		
5	22 5 427	343 10 6	84	14 4 54.9	39.3 0 0	15.6	21 41 948	856 0 0	92	1,1,1,2,3,3,1,2	14	1	82.0		
6	17 4 422	338 12 33	84	13 48 59.6	43.1 6 48	16.5	15 30 949	903 11 32	46	3,0,0,1,2,2,1,0	9	0	82.1		
7 q	19 27 413	346 10 56	67	0 51 58.9	42.4 5 56	16.5	16 48 945	864 1 15	81	2,2,1,1,1,0,1,2	10	0	82.0		
8 q	23 5 408	349 11 52	59	12 16 56.8	41.5 6 11	15.3	17 11 925	896 23 52	29	1,1,0,1,1,2,1,0	7	0	81.9		
9 q	17 31 412	358 11 7	54	12 40 57.1	45.3 7 18	11.8	8 16 924	894 1 8	30	0,0,1,1,1,2,1,0	6	0	81.6		
10	17 48 420	358 10 48	62	13 37 57.2	42.7 7 4	14.5	18 50 928	901 12 11	27	1,0,0,1,2,3,2,0	9	0	80.5		
	18 21 456	361 12 14	95	12 59 58.1	41.3 6 11	16.8	19 44 937	896 12 56	41	1,1,1,1,1,3,2,2	12	1	80.0		
11	16 16 459	356 10 17	103	16 22 57.2	40.3 6 5	16.9	18 4 932	896 22 5	36	2,4,2,2,2,1,2,1	14	1	79.9		
12	18 24 424	338 11 30	86	3 42 64.8	39.6 6 16	25.2	20 33 932	849 4 11	83	1,1,3,3,4,4,2,3	21	1	80.0		
13	17 2 479	334 12 13	145	15 35 57.7	39.1 8 3	18.6	16 54 1019	890 21 57	129	3,3,1,2,1,2,1,3	16	1	80.9		
14	17 59 426	328 11 24	98	2 53 61.1	40.1 23 49	21.0	15 59 938	846 3 19	92	5,5,3,3,3,2,3,2	26	1	81.6		
15 d	21 0 423	150 3 5	273	4 29 68.6	26.4 2 9	42.2	11 47 950	636 2 49	314	1,0,1,3,3,3,4,2	17	1	81.8		
16	17 23 476	333 12 57	143	12 56 64.8	33.4 20 11	31.4	19 17 981	884 9 12	97	3,2,3,2,2,3,5,5	25	1	81.8		
17	20 42 532	311 23 34	221	21 51 70.1	30.4 20 37	39.7	17 45 991	732 23 50	259	6,5,4,3,3,3,3,4	31	1	82.0		
18 d	18 21 446	126 2 45	320	5 8 69.5	22.5 2 17	47.0	12 1 979	700 3 1	279	4,5,3,2,3,3,3,2	25	1	82.8		
19	20 20 450	245 4 46	205	4 40 66.7	38.1 20 16	28.6	13 48 961	784 4 53	177	2,1,1,1,1,2,2,2	12	0	83.0		
20	19 51 417	354 9 51	63	14 56 55.2	43.3 6 20	11.9	16 1 938	895 24 0	43	2,1,1,1,2,1,1,0	9	0	83.5		
21 q	19 24 418	341 10 27	77	14 32 54.9	43.8 5 43	11.1	18 56 930	887 0 14	43	0,0,1,1,1,1,0,1	5	0	84.5		
22 q	18 2 415	354 10 38	61	12 54 55.9	41.4 6 48	14.5	17 35 929	903 11 22	26	1,2,2,2,2,3,2,2	16	1	84.4		
23	18 52 431	347 12 5	84	13 59 59.0	41.3 23 36	17.7	19 32 938	886 24 0	52	7,5,2,2,3,4,4,6	33	2	83.7		
24 d	16 35 494	132 2 14	626	19 57 65.2	2.6 2 7	62.6	17 16 1018	609 2 11	409	4,3,3,2,4,3,4,3	26	1	83.5		
25	18 34 463	256 2 9	207	13 5 58.1	36.3 0 58	21.8	14 4 990	753 0 0	237	2,2,2,1,2,3,3,4	19	1	83.7		
26	17 30 446	346 0 45	100	13 48 56.3	32.4 23 51	23.9	18 5 970	838 23 36	132	4,3,2,1,2,2,2,5	21	1	83.9		
27	19 47 442	337 22 57	105	16 14 58.7	32.4 3 27	26.3	20 16 936	775 23 48	161	6,4,3,3,3,3,3,4	29	1	84.3		
28 d	18 4 469	151 2 42	318	2 44 62.9	32.5 1 24	30.4	15 42 991	735 3 20	256	3,4,2,2,2,2,2,1	18	1	83.9		
29	19 55 428	295 3 58	133	4 7 53.8	33.8 0 0	20.0	19 20 939	833 4 12	106	3,2,3,1,3,2,1,2	17	1	84.0		
30	18 51 424	338 7 17	86	13 57 54.8	41.9 5 15	12.9	17 1 928	877 3 0	51	1,1,1,1,2,2,2,2	12	0	84.0		
31	19 47 425	357 10 38	68	14 55 56.4	41.6 6 41	14.8	5 51 922	890 24 0	32						
Mean	- - 446	282 - -	164	- - 60.4	36.0 - -	24.4	- - 958	819 - -	140	2.2	18.1	0.74	82.4		

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

24 LERWICK (H)

14,000γ (0.14 C.G.S. unit) +

JUNE 1943

JUNE 1943																									
	Hour G. M. T.																								
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	410	410	409	409	404	401	391	381	367	360	365	379	385	403	407	415	412	410	421	436	426	412	400	392	400
2	395	398	398	396	396	391	383	374	368	363	355	362	365	389	413	414	410	416	420	416	410	406	405	402	394
3	401	397	396	398	396	389	376	365	357	363	365	367	374	378	393	401	408	414	415	413	410	408	405	402	391
4 q	397	399	398	395	392	396	399	391	387	382	376	368	364	371	390	400	407	410	413	412	410	407	404	401	395
5	399	402	400	401	401	401	398	394	389	376	368	362	372	388	391	410	417	425	437	439	429	427	425	419	403
6	406	387	382	376	404	408	403	391	380	372	370	372	375	392	394	397	413	416	420	418	410	410	405	402	396
7	400	395	393	392	396	398	395	383	379	366	366	371	343	367	393	415	402	435	429	424	413	410	411	371	394
8 d	396	403	393	410	396	365	359	363	357	363	364	363	380	409	420	402	438	506	465	426	416	402	373	376	398
9 d	347	370	390	365	314	375	386	383	366	315	333	356	382	375	373	418	403	415	418	429	412	409	400	395	380
10	394	387	388	377	344	375	390	373	351	337	351	367	373	375	387	404	420	396	403	409	410	404	368	380	382
11	393	393	393	392	392	391	389	384	376	362	358	355	351	379	401	414	383	421	416	418	413	412	396	393	391
12	395	393	390	389	391	377	374	362	344	359	353	370	387	393	396	388	393	409	419	426	418	413	407	401	389
13	393	278	321	376	373	374	380	381	377	369	367	364	370	383	392	397	423	427	422	420	428	412	402	394	384
14	387	376	365	389	384	358	345	370	372	362	355	369	386	412	406	398	413	429	403	405	403	399	396	392	386
15	390	388	386	386	381	389	391	379	364	357	357	356	364	374	383	394	401	410	418	410	410	407	399	397	387
16 q	398	397	394	398	401	399	392	384	369	352	353	364	382	387	391	392	402	407	418	414	411	408	405	404	393
17 q	398	393	396	398	399	400	393	387	379	368	359	357	371	384	400	410	418	415	411	409	409	405	403	400	394
18 q	400	399	398	398	396	390	382	372	368	364	365	371	382	395	404	409	408	408	421	426	419	420	416	410	397
19	406	408	409	407	404	398	393	384	381	368	367	375	378	390	418	423	457	431	430	436	432	414	408	372	404
20	295	273	291	343	382	376	370	366	354	327	336	350	380	383	400	384	401	420	431	428	428	406	295	378	367
21	389	376	383	375	379	388	379	362	352	345	324	345	333	380	417	438	418	468	451	430	420	397	366	398	388
22	388	391	379	342	300	343	332	313	322	359	354	354	355	357	380	401	421	415	458	433	417	416	396	380	375
23 d	379	380	345	352	384	372	362	375	365	355	362	366	367	376	391	419	418	443	452	449	418	349	340	325	381
24 d	366	338	327	362	329	329	359	345	358	351	354	365	362	371	392	415	464	474	444	408	398	396	394	387	379
25	376	362	373	386	390	387	381	363	359	359	347	352	355	359	369	389	420	443	434	423	421	413	392	386	385
26	386	384	376	377	377	376	378	371	366	363	365	367	371	376	389	387	395	409	417	417	411	404	403	388	386
27	387	389	394	392	387	382	378	371	371	367	365	370	372	376	389	396	416	426	435	427	426	417	412	384	393
28 d	392	396	404	410	404	401	407	355	350	359	353	338	345	336	388	393	399	437	443	443	406	397	395	393	389
29	382	387	390	385	357	376	395	385	375	368	368	362	372	382	391	398	401	402	397	397	401	402	401	401	386
30 q	401	399	401	401	400	392	387	382	376	366	366	365	371	380	393	401	414	417	410	409	404	404	401	401	393
Mean	388	382	382	386	382	383	382	373	366	359	358	363	369	381	395	404	413	425	426	422	415	406	394	391	389

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, +2γ.

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

25 LERWICK (D)

11° +

JUNE 1943

	Hour G. M. T.																								Mean	
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24		
1	47.1	47.4	46.2	43.7	44.0	43.2	43.7	45.4	47.1	50.0	51.0	52.4	54.3	54.2	53.2	51.7	51.8	51.7	51.9	53.0	51.1	37.6	43.2	45.9	48.4	
2	47.0	47.0	46.1	46.3	44.0	43.0	42.7	42.4	44.3	47.6	50.2	53.0	54.8	54.4	53.8	52.8	51.8	51.1	51.7	52.4	52.1	51.0	50.1	49.9	49.1	
3	50.0	48.3	47.0	45.7	44.2	43.2	43.6	46.5	48.0	48.2	49.5	53.1	55.3	55.1	53.4	53.0	52.8	52.4	51.5	51.1	50.6	50.2	49.2	46.1	49.5	
4 q	47.0	43.4	45.4	44.5	44.2	44.0	43.5	44.2	44.4	45.4	47.4	50.5	53.2	54.4	54.2	54.1	52.2	51.1	49.2	48.5	48.9	49.2	48.7	48.1	48.2	
5	48.1	48.2	47.1	45.4	45.3	44.0	43.4	42.5	42.6	44.4	47.2	51.0	54.0	55.9	57.4	57.5	57.0	55.1	54.2	52.0	51.5	50.4	49.4	49.5	49.7	
6	46.4	40.2	42.4	47.5	37.4	37.5	35.6	37.3	40.9	42.5	46.3	49.0	52.7	54.2	54.0	53.3	54.1	53.2	52.4	51.5	50.4	49.3	48.4	47.9	46.9	
7	47.7	47.2	47.0	46.1	44.0	42.6	42.6	43.1	44.2	46.3	49.2	52.0	56.1	56.1	57.0	57.9	56.1	56.0	54.3	51.6	51.1	50.6	52.0	49.0	50.0	
8 d	44.3	44.1	44.6	45.1	44.3	56.3	56.4	57.4	53.3	53.3	51.3	54.2	55.1	57.0	58.3	58.1	57.3	45.0	51.5	53.5	52.3	48.4	40.3	45.1	51.1	
9 d	45.4	51.4	47.2	45.1	49.5	47.7	45.0	45.9	45.6	49.0	50.6	52.7	51.9	54.4	51.5	52.8	54.3	53.0	50.5	48.3	50.4	50.4	47.2	48.3	49.5	
10	47.2	45.6	44.4	47.7	54.3	49.4	45.4	45.0	44.2	46.4	44.3	46.7	49.4	47.5	53.1	47.2	44.5	51.2	51.4	51.5	50.2	48.9	44.5	44.0	47.7	
11	47.1	47.9	47.3	46.1	44.5	44.1	43.2	43.3	43.8	47.5	49.3	54.1	55.8	55.4	54.5	54.2	51.4	52.0	52.0	52.0	51.6	48.4	49.5	47.4	49.3	
12	48.2	47.5	46.4	45.3	46.0	45.4	44.1	48.5	46.8	48.4	48.3	54.3	53.6	53.0	53.2	51.6	51.1	51.9	51.2	44.7	50.6	50.9	50.7	49.0	49.2	
13	52.2	63.3	44.4	39.4	41.5	43.8	42.7	43.8	42.8	45.2	48.4	52.3	55.1	55.2	56.1	56.7	51.6	52.4	51.3	53.1	50.4	49.0	48.2	48.2	49.5	
14	53.5	46.4	44.4	44.3	46.1	45.4	51.0	47.8	44.5	45.2	48.0	50.9	54.2	52.5	53.3	50.4	49.5	46.4	49.5	48.5	49.6	49.7	49.8	49.4	48.8	
15	49.3	49.1	46.7	44.5	43.5	43.6	43.1	43.7	44.3	46.1	48.1	50.4	51.7	53.1	54.2	53.1	51.0	49.6	50.2	50.1	50.0	48.3	45.5	47.5	48.2	
16 q	48.1	49.1	47.7	45.1	43.7	42.1	42.1	40.9	41.2	43.7	47.4	51.4	54.0	54.6	53.9	52.4	51.0	50.2	50.3	51.3	50.9	50.5	50.9	49.0	48.4	
17 q	47.4	45.8	43.5	41.6	41.9	42.1	42.2	43.3	43.8	45.3	46.5	49.0	51.0	50.5	50.1	50.1	49.5	49.7	50.4	50.5	51.1	51.2	49.6	49.5	47.3	
18 q	48.7	48.1	47.0	45.5	43.8	41.7	41.7	41.9	42.8	47.0	49.9	52.3	54.3	56.2	57.5	55.0	52.0	50.2	50.6	52.4	52.4	52.3	51.3	50.5	49.4	
19	48.4	47.1	46.1	46.0	42.3	40.3	39.4	40.5	43.0	45.5	49.1	52.2	56.0	57.0	58.4	59.0	57.7	54.7	52.2	52.7	52.0	48.7	46.9	50.6	49.4	
20	47.9	34.4	39.9	41.2	39.6	39.4	41.3	40.1	40.2	46.5	52.3	55.2	57.4	58.1	59.0	56.4	53.4	52.2	51.4	50.9	49.9	49.9	51.5	42.8	48.0	
21	51.0	41.4	40.7	42.3	46.5	42.2	41.3	44.2	44.3	45.0	48.2	52.2	57.0	59.3	59.4	60.9	57.0	55.1	50.5	52.0	50.5	47.5	49.8	47.5	49.4	
22	47.4	45.7	42.4	50.2	50.5	52.0	48.9	47.4	46.5	44.4	47.4	51.4	54.9	53.5	53.3	53.6	53.6	50.5	48.1	51.1	51.0	40.2	45.1	45.4	48.9	
23 d	46.4	44.4	45.1	46.8	44.8	41.4	42.8	40.2	41.2	42.4	45.6	50.2	52.2	53.3	56.0	58.3	52.4	52.0	53.6	54.3	51.3	50.4	50.3	47.4	48.4	
24 d	45.1	35.6	45.7	45.3	51.0	49.5	45.6	47.0	44.4	43.5	46.2	48.5	52.1	54.4	54.8	55.0	51.2	49.8	49.3	53.1	52.0	50.1	49.3	50.3	48.7	
25	51.1	49.4	46.0	41.4	41.5	42.2	41.6	42.6	41.3	42.1	42.7	45.6	48.3	51.6	52.4	53.1	51.8	46.5	50.2	51.1	47.2	47.4	48.4	46.2	46.7	
26	45.5	46.1	46.4	44.3	45.2	44.2	43.0	42.3	43.1	44.9	46.5	50.3	52.3	52.0	50.4	51.0	51.2	52.1	51.4	50.2	50.3	49.4	48.3	46.5	47.8	
27	49.8	45.1	44.4	44.4	43.0	41.5	42.1	42.7	43.2	45.0	45.8	48.4	50.4	51.8	53.4	53.3	51.8	51.4	52.3	52.4	52.1	50.5	38.3	41.6	47.3	
28 d	41.8	43.0	43.0	43.3	42.2	46.1	43.2	45.2	51.0	51.3	48.2	52.5	54.5	57.3	54.4	54.0	53.2	53.1	51.8	40.1	44.8	49.3	50.2	46.5	48.3	
29	47.2	44.5	44.5	46.1	52.1	51.3	44.5	45.0	43.2	43.5	46.1	50.4	52.8	53.9	53.2	51.9	51.0	49.3	48.2	47.9	48.3	48.4	48.3	47.3	48.3	
30 q	47.0	46.3	45.4	46.1	44.0	41.9	42.2	41.9	43.4	45.3	48.4	51.0	53.3	54.3	55.2	54.2	53.2	52.1	51.0	50.5	50.0	49.2	48.2	46.8	48.4	
Mean	47.8	46.1	45.1	44.9	44.8	44.4	43.6	44.1	44.3	46.0	48.0	51.2	53.6	54.3	54.6	54.1	52.5	51.4	51.1	50.7	50.5	48.9	48.1	47.4	48.7	

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

25

26	LERWICK (V)													46,000γ (0.46 C.G.S. unit) +													JUNE 1943																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	Hour G.M.T.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, +2γ.

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

27 LERWICK		TERRESTRIAL MAGNETIC ELEMENTS												JUNE 1943			
		Horizontal force			Declination			Vertical force			3-hr. range indices K		Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +		
		Maximum 14,000γ +	Minimum 14,000γ +	Range	Maximum 11° +	Minimum 11° +	Range	Maximum 46,000γ +	Minimum 46,000γ +	Range							
	h. m. γ	γ h. m.	γ	h. m. γ	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ				°A.			
1	19 34 443	354 9 26	89	12 54 55.2	33.6 21 26	21.6	21 15 951	891 0 11	60	2, 2, 2, 2, 1, 2, 2, 3	16	0	84.5				
2	18 35 429	345 10 24	84	12 50 57.3	40.8 8 0	16.5	18 57 930	908 13 42	22	1, 1, 1, 2, 3, 2, 1, 1	12	0	84.1				
3	17 32 426	353 8 21	73	12 55 56.1	41.0 6 18	15.1	18 13 928	903 9 52	25	1, 1, 2, 1, 1, 1, 0, 2	9	0	83.9				
4 q	18 21 417	358 12 42	59	13 39 55.1	42.6 1 39	12.5	17 13 925	892 0 55	33	2, 1, 0, 2, 1, 1, 0, 0	7	0	84.0				
5	18 37 449	361 11 29	88	15 37 58.5	41.7 7 36	16.8	20 6 930	857 24 0	73	1, 0, 1, 1, 2, 2, 2, 3	12	0	84.0				
6	18 8 422	344 3 7	78	13 33 54.5	34.3 6 51	20.2	20 3 919	821 0 54	98	3, 3, 2, 1, 2, 1, 0, 0	12	1	83.7				
7	17 47 457	323 12 25	134	15 13 59.8	40.4 23 47	19.4	19 31 947	787 23 46	160	0, 1, 1, 3, 3, 3, 2, 5	18	1	83.7				
8 d	17 47 525	338 11 35	187	15 10 61.5	35.7 17 31	25.8	17 29 1041	797 0 0	244	4, 3, 3, 3, 4, 4, 4, 3	28	1	83.7				
9 d	15 16 441	287 4 30	154	4 55 57.0	40.4 6 5	16.6	17 42 969	835 1 14	134	4, 4, 2, 3, 3, 3, 2, 2	23	1	83.9				
10	16 24 436	329 4 42	107	4 39 57.3	36.6 15 52	20.7	15 55 968	834 22 42	134	1, 3, 3, 3, 2, 4, 2, 4	22	1	84.2				
11	14 59 464	330 12 8	134	12 8 57.3	42.4 6 12	14.9	15 47 961	894 0 0	67	1, 0, 1, 3, 4, 4, 2, 2	17	1	84.2				
12	19 37 448	329 8 26	119	11 59 57.0	38.6 19 25	18.4	19 16 955	901 9 16	54	0, 2, 2, 3, 3, 2, 3, 2	17	1	84.0				
13	15 56 454	210 1 56	244	1 29 73.9	37.1 3 28	36.8	16 39 966	671 2 4	295	6, 4, 2, 2, 3, 3, 3, 3	26	1	84.5				
14	17 33 452	335 6 15	117	0 59 59.9	40.5 1 33	19.4	17 17 948	794 1 31	154	4, 3, 3, 2, 2, 3, 1, 1	19	1	85.0				
15	18 39 420	350 11 30	70	14 35 54.9	42.3 6 4	12.6	19 44 932	911 10 39	21	1, 1, 1, 1, 1, 0, 1, 2	8	0	85.3				
16 q	18 50 423	350 9 40	73	13 20 54.8	40.2 8 5	14.6	16 43 924	902 12 15	22	1, 1, 1, 2, 1, 0, 0, 1	9	0	85.9				
17 q	16 26 421	353 11 16	68	12 44 51.7	40.4 3 39	11.3	18 10 924	907 11 34	17	2, 1, 0, 1, 1, 1, 0, 1	7	0	86.3				
18 q	19 35 431	362 9 38	69	14 30 57.7	41.1 6 1	16.6	3 26 925	898 10 20	27	0, 0, 0, 1, 1, 1, 1, 0	4	0	86.0				
19	16 21 477	282 23 56	195	23 55 65.2	38.2 6 15	27.0	18 15 953	811 24 0	142	1, 1, 1, 2, 3, 3, 2, 4	17	1	85.9				
20	18 36 446	157 1 42	289	0 0 64.0	21.2 1 40	42.8	17 45 947	646 1 42	301	5, 5, 2, 3, 2, 3, 2, 5	27	1	85.8				
21	17 42 502	307 10 34	195	15 17 65.0	36.7 1 41	28.3	17 36 1000	813 1 6	187	3, 3, 2, 3, 4, 4, 3, 4	26	1	86.2				
22	18 12 480	271 4 24	209	12 53 56.3	36.3 21 24	20.0	19 7 953	816 4 41	137	2, 4, 3, 2, 2, 3, 3, 3	22	1	86.4				
23 d	18 17 463	261 22 51	202	16 8 60.3	38.3 8 0	22.0	16 41 997	788 22 47	209	3, 3, 2, 2, 3, 3, 4, 4	24	1	86.0				
24 d	16 58 524	281 2 1	243	17 53 57.0	32.2 1 35	24.8	16 40 958	795 0 19	163	4, 3, 3, 3, 3, 4, 3, 3	26	1	86.2				
25	17 31 460	333 11 0	127	0 51 55.8	38.6 3 52	17.2	13 40 947	817 2 17	130	3, 3, 2, 2, 1, 3, 2, 3	19	1	86.5				
26	19 14 426	359 10 52	67	12 23 53.0	40.0 7 37	13.0	20 1 936	889 23 5	47	3, 1, 1, 1, 1, 1, 1, 3	12	0	86.0				
27	18 54 440	359 9 26	81	15 2 54.6	31.6 22 23	23.0	22 21 920	855 0 31	65	3, 2, 1, 2, 1, 2, 1, 4	16	0	86.0				
28 d	19 22 468	317 13 15	151	13 13 58.8	33.4 19 39	25.4	19 14 972	874 24 0	98	2, 3, 3, 3, 3, 3, 4, 3	24	1	86.1				
29	17 1 405	348 4 22	57	5 6 55.1	42.1 8 54	13.0	18 17 925	843 0 23	82	3, 3, 2, 1, 1, 1, 1, 0	12	0	86.7				
30 q	16 59 420	361 9 50	59	14 19 56.0	40.8 6 3	15.2	15 24 925	915 7 48	10	0, 0, 0, 1, 1, 1, 0, 1	4	0	87.7				
Mean	- - 449	322 - -	127	- - 58.0	37.9 - -	20.1	- - 949	842 - -	107	2.1	16.5	0.57	85.2				

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

28 LERWICK (H)												14,000γ (0.14 C.G.S. unit) +												JULY 1943	
	Hour G.M.T.																								
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
1 q	400	397	396	392	396	391	382	380	376	371	368	373	379	383	392	392	401	411	410	413	412	409	409	405	393
2	404	405	405	407	404	401	394	388	381	372	366	366	375	396	396	405	407	415	422	425	423	413	412	414	400
3	396	409	410	389	379	371	349	362	362	371	365	361	370	371	384	390	412	417	421	410	404	397	395	396	387
4 d	388	390	393	393	388	384	375	368	360	365	371	382	359	388	406	445	461	443	456	476	425	384	400	377	399
5 d	371	211	348	388	393	345	343	359	357	352	356	377	389	397	383	471	457	504	494	443	424	412	390	397	390
6 d	384	362	278	344	386	320	314	359	367	339	279	337	381	405	407	464	462	409	410	412	418	392	347	386	373
7	373	365	384	398	381	360	376	386	379	357	354	350	357	379	399	407	423	418	415	405	409	405	398	384	386
8 d	334	357	396	390	364	387	380	347	337	374	367	355	354	367	391	394	399	397	410	439	413	401	396	396	381
9 d	395	383	367	367	374	368	343	277	341	357	367	362	381	383	418	401	402	474	493	444	425	404	396	388	388
10	387	380	349	283	376	384	362	352	347	338	360	339	362	402	438	408	436	440	426	404	394	393	395	391	381
11	392	383	382	379	372	350	329	312	304	340	345	350	384	376	409	401	411	404	418	417	413	402	387	366	376
12	378	384	373	351	366	370	368	379	368	355	359	360	359	367	373	413	406	425	427	432	420	410	393	392	385
13	374	332	357	375	381	388	387	384	380	360	357	350	359	363	401	408	431	447	432	429	428	397	399	396	388
14 q	384	384	392	391	392	393	390	387	379	365	361	366	366	372	380	389	400	411	416	412	407	400	400	398	389
15	397	395	392	389	396	396	395	387	381	379	374	378	376	400	425	427	408	421	426	427	414	408	396	384	399
16	376	374	362	376	401	405	391	391	384	372	369	371	383	398	414	400	429	421	418	409	417	414	395	397	394
17	399	381	366	391	397	396	396	389	376	371	367	368	374	376	388	406	412	428	427	427	414	415	412	417	396
18	384	385	387	385	393	396	380	388	381	365	379	363	380	408	412	460	459	451	457	441	423	389	381	406	402
19	390	371	350	325	367	379	370	358	373	362	350	350	357	371	371	394	434	443	439	421	407	386	388	379	381
20	391	384	364	391	393	387	381	381	367	357	358	356	365	380	401	419	430	421	405	412	407	401	400	400	390
21	400	379	389	384	387	391	379	375	379	358	343	346	358	380	413	422	437	456	422	401	398	400	396	396	391
22	391	390	370	350	379	395	386	382	376	354	349	359	384	383	391	397	394	401	412	408	418	401	387	394	385
23	392	392	391	385	384	383	374	378	376	374	371	375	383	386	387	388	380	393	410	415	417	409	404	397	389
24 q	392	380	382	382	379	389	396	392	387	376	366	362	371	380	378	388	388	396	400	402	405	401	396	394	387
25 q	392	390	387	390	385	387	392	385	375	362	357	361	363	369	377	387	400	409	414	420	417	411	409	403	389
26	405	404	401	401	401	402	399	392	382	368	365	357	362	362	382	396	412	432	433	423	426	402	404	390	396
27	382	363	375	400	404	405	400	394	393	376	365	357	360	388	406	393	393	418	416	409	410	407	400	401	392
28	400	397	396	395	395	390	389	385	384	376	368	359	362	363	384	397	401	400	405	407	407	407	406	404	391
29 q	394	395	385	396	399	396	388	379	370	362	360	362	367	372	383	394	398	404	410	413	413	411	411	405	390
30	409	413	409	415	410	393	384	381	366	344	336	364	392	390	404	408	401	443	430	422	408	395	393	396	396
31	401	373	376	386	391	387	372	362	354	344	332	333	366	375	389	410	414	410	411	405	405	405	380	366	381
Mean	389	378	378	380	388	384	376	372	369	362	358	360	370	382	396	409	416	425	425	420	414	403	396	394	389

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, +3γ.

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

29 LERWICK (D)												11° +												JULY 1943									
	Hour G.M.T.																																
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean								
1 q	47.2	48.0	47.5	46.1	44.7	42.2	41.1	42.1	41.8	45.2	46.5	49.2	50.4	52.2	53.3	52.4	51.4	50.5	50.1	49.9	50.0	49.4	49.1	48.2	47.9								
2	47.2	46.3	46.2	44.6	44.2	41.3	41.2	42.8	44.6	47.1	48.3	51.0	53.4	55.5	57.0	55.4	53.3	52.4	52.3	52.1	50.3	51.3	51.0	45.1	48.9								
3	39.3	41.6	41.1	37.6	41.2	49.4	49.5	45.8	48.1	45.2	45.5	50.2	55.0	56.1	57.2	56.2	54.3	52.8	51.4	51.0	49.3	48.5	48.2	49.0	48.5								
4 d	48.4	45.6	43.4	42.4	40.4	38.3	37.2	38.1	40.4	43.4	47.1	51.4	54.4	56.4	56.4	57.3	59.4	51.8	56.3	54.1	36.3	48.4	47.3	48.2	47.6								
5 d	46.3	46.5	44.0	42.5	41.3	47.4	45.4	46.3	45.7	46.5	46.1	48.9	52.7	55.3	54.7	52.0	55.1	53.0	47.6	48.2	46.2	46.5	30.5	38.4	47.0								
6 d	40.7	44.1	57.3	51.4	43.5	47.2	47.9	43.1	44.2	45.2	52.0	52.1	49.2	49.3	54.1	51.8	48.2	52.4	52.0	49.4	45.4	46.1	51.9	43.1	48.4								
7	46.1	51.3	45.5	41.4	41.8	48.1	49.2	46.0	44.3	44.2	46.1	49.1	53.5	54.0	53.4	52.9	51.3	53.4	52.9	51.5	49.1	43.0	40.8	43.7	48.0								
8 d	42.1	39.4	41.2	42.4	45.9	45.6	48.9	47.2	48.3	44.2	44.4	45.6	48.4	52.3	49.8	50.3	53.1	52.4	53.4	48.4	48.3	49.6	49.3	49.3	47.5								
9 d	48.1	45.2	51.3	49.1	49.3	49.1	52.0	54.5	50.0	50.0	46.1	45.2	46.8	51.1	51.4	53.3	54.0	55.1	46.1	49.4	47.5	46.8	46.4	48.5	49.4								
10	48.3	47.8	49.5	49.4	41.2	46.2	44.0	44.8	46.4	47.3	42.2	45.3	50.6	51.5	45.3	52.3	53.5	50.1	51.4	52.0	51.0	50.1	49.6	48.3	48.3								
11	48.0	49.3	48.3	46.6	45.1	44.3	49.8	48.8	53.2	50.4	49.3	49.6	51.2	48.3	49.1	53.0	51.6	46.0	46.4	50.4	50.3	47.8	43.5	47.2	48.6								
12	43.0	42.2	41.2	47.0	44.6	43.5	45.8	44.2	45.4	47.5	48.3	51.1	52.0	51.5	52.3	53.4	51.1	50.3	51.1	50.4	45.7	44.3	48.3	49.9	47.7								
13	53.3	48.4	40.5	42.2	43.2	44.3	43.2	42.5	42.1	45.9	45.6	47.7	51.1	52.0	50.5	52.4	52.0	53.5	50.1	52.3	49.0	52.3	48.3	47.3	47.9								
14 q	50.6	49.1	45.9	44.5	43.4	42.4	42.9	42.9	44.4	46.0	47.7	46.6	54.3	55.1	53.4	51.4	50.3	49.5	49.2	49.1	48.3	48.5	48.6	48.4	48.0								
15	47.5	48.1	47.0	48.3	45.1	43.1	43.2	42.3	44.3	45.3	48.3	51.2	54.1	53.9	55.3	56.2	54.3	51.2	50.4	44.9	46.5	45.1	46.3	47.8	48.3								
16	44.3	47.3	47.7	45.5	43.3	40.3	40.2	42.7	44.4	48.3	51.9	53.4	56.6	58.1	57.9	55.4	54.3	52.4	50.1	49.7	48.0	45.3	46.1	47.1	48.8								
17	48.1	54.0	46.0	40.3	42.1	42.0	42.3	42.0	43.0	45.5	49.3	50.9	53.0	55.0	55.1	53.5	51.4	52.1	52.0	50.8	49.9	50.2	45.1	35.8	47.9								
18	42.2	45.1	44.7	43.5	42.3	39.5	38.5	38.1	37.4	41.5	46.0	51.3	56.8	60.6	59.4	56.5	54.5	52.8	55.0	50.6	41.1	40.6	46.4	41.7	46.9								
19	44.2	43.1	49.5	47.4	43.4	40.1	44.7	47.1	43.3	43.5	44.4	46.4	49.2	52.9	53.4	52.3	54.4	53.3	53.1	51.4	50.1	43.6	39.4	42.5	47.2								
20	45.1	44.5	48.1	44.6	43.1	41.4	41.5	42.6	43.4	44.5	45.4	49.1	52.2	56.2	57.8	54.4	49.2	51.7	52.0	51.3	49.8	49.9	47.9	47.4	48.0								
21	43.6	47.5	42.2	41.7	43.5	45.0	47.6	44.5	42.5	42.6	46.1	48.1	51.9	54.2	53.9	55.9	54.5	48.4	51.0	51.2	51.1	48.8	49.9	48.3	48.1								
22	47.1	43.2	46.5	49.5	45.1	44.4	43.6	42.2	44.2	44.5	46.4	48.7	51.1	52.2	51.7	51.2	52.1	52.1	47.9	47.7	49.5	50.6	48.1	44.4	47.7								
23	45.3	45.6	47.5	46.3	45.3	42.4	42.5	43.3	42.3	43.6	45.4	50.0	53.2	54.4	54.8	55.0	54.3	52.3	50.8	49.4	49.2	48.4	47.1	46.4	48.1								
24 q	45.3	42.3	43.5	42.4	45.2	45.5	43.2	42.4	41.3	42.5	45.2	49.0	51.6	53.6	54.3	53.2	51.2	49.9	48.8	48.1	48.3	48.2	47.6	47.3	47.1								
25 q	47.0	47.0	47.3	45.3	45.1	43.5	42.4	42.6	43.5	45.1	47.1	49.5	52.0	53.1	52.2	50.9	49.9	49.8	50.3	50.5	49.6	48.2	46.4	45.8	47.7								
26	46.3	46.1	45.0	44.4	44.0	42.4	40.3	40.5	40.8	43.4	44.6	50.1	54.0	55.9	54.7	52.3	50.4	51.0	51.3	50.9	40.9	49.2	49.3	47.2	47.3								
27	47.2	46.6	36.9	42.0	44.8	46.7	45.3	42.4	42.4	44.0	46.7	51.4	54.3	54.4	55.0	55.2	52.3	51.2	50.3	49.8	49.4	48.5	47.0	46.5	47.9								
28	46.1	45.9	45.5	44.7	43.8	44.2	42.8	42.1	41.6	43.1	46.2	50.3	53.4	54.5	53.4	52.5	50.8	49.3	49.0	49.1	48.3	47.5	48.1	46.2	47.4								
29 q	47.1	47.4	47.7	45.1	40.9	40.4	40.2	40.5	42.1	44.5	47.0	50.2	52.1	53.3	52.3	50.9	49.5	48.8	48.5	49.2	49.9	50.1	48.4	46.5	47.2								
30	44.5	46.6	45.2	44.3	43.5	41.2	43.2	42.3	42.6	41.1	50.6	53.4	59.8	62.0	59.9	57.1	54.1	50.3	51.5	37.3	41.2	48.2	48.3	46.5	48.1								
31	42.1	39.5	39.4	43.5	43.1	42.1	43.1	43.8	43.4	48.3	51.0	55.9	57.5	59.4	58.3	56.2	52.2	48.3	49.0	47.3	46.6	41.2	44.5	46.4	47.6								
Mean	45.9	46.0	45.6	44.7	43.7	43.7	44.0	43.6	43.9	45.1	47.0	49.7	52.8	54.3	54.1	53.6	52.5	51.2	50.7	49.6	47.6	47.6	46.7	46.1	47.9								

30 LERWICK (V)		46,000γ (0.46 C.G.S. unit) +																								JULY 1943				
	Hour	G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean			
1 q	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ			
2	919	919	917	910	906	907	910	910	911	903	900	900	901	906	908	911	915	915	921	918	916	915	915	916	915	916	911			
3	917	918	920	921	922	922	917	911	906	902	900	897	896	903	910	912	915	915	915	914	919	916	912	873	911	902				
4 d	890	897	899	898	888	851	852	849	873	908	908	913	914	921	919	920	922	925	925	922	918	921	916	909	902					
5 d	913	869	881	900	909	914	917	917	907	897	890	882	897	898	902	922	973	1040	992	959	940	893	887	865	915					
6 d	854	786	733	851	875	883	885	893	893	913	921	917	922	930	960	960	981	952	946	908	941	919	880	867	899					
7	881	881	809	777	837	868	863	894	910	922	929	914	940	972	975	983	985	962	949	952	945	920	839	839	906					
8 d	859	831	844	883	902	892	882	895	914	926	930	934	920	919	924	944	947	938	932	931	922	921	905	899	908					
9 d	809	809	866	884	884	890	896	914	919	909	919	936	935	931	940	948	948	950	938	942	927	932	926	919	911					
10	903	908	887	893	903	907	907	889	893	909	926	941	942	931	928	947	963	957	943	953	927	902	923	919	921					
	912	911	895	779	807	867	892	910	914	918	934	953	940	943	986	970	959	963	957	941	933	932	930	927	920					
11	923	916	910	911	891	904	887	909	922	903	920	920	916	954	958	942	940	956	955	948	940	930	893	839	920					
12	832	864	869	824	845	878	901	909	918	933	931	924	920	920	922	927	947	944	940	948	953	941	928	918	910					
13	892	784	823	864	886	901	913	921	923	926	928	927	928	922	923	951	973	975	967	942	923	905	915	920	914					
14 q	910	897	914	924	924	923	923	924	929	927	924	923	925	922	922	922	920	917	919	922	926	926	926	926	921					
15	922	919	915	914	907	915	915	916	919	925	925	920	925	933	941	963	975	967	961	962	949	937	920	913	933					
16	891	884	884	872	889	903	914	909	914	920	923	924	927	928	943	964	972	991	994	969	947	942	921	926	927					
17	922	905	834	878	895	909	911	917	918	917	912	906	910	917	923	927	944	945	944	944	944	930	930	883	915					
18	887	889	910	916	916	910	916	914	911	907	899	906	907	916	942	964	979	971	952	967	954	939	912	886	924					
19	895	906	899	856	871	906	915	915	921	926	923	918	919	923	931	935	942	961	961	953	941	915	899	901	918					
20	904	901	904	906	917	919	923	923	925	927	919	915	911	911	911	926	940	943	941	936	929	916	912	912	920					
21	880	838	875	906	914	912	910	910	915	921	920	913	913	914	922	929	930	953	961	952	939	923	898	890	914					
22	899	900	906	872	873	899	905	915	917	925	921	919	916	924	926	931	934	931	937	932	925	893	856	893	910					
23	910	914	908	910	912	912	917	916	918	917	910	907	911	913	915	920	927	926	926	928	931	930	925	917	917					
24 q	906	904	904	908	912	910	912	917	919	926	921	914	910	912	914	917	920	920	921	919	920	921	922	921	915					
25 q	920	919	916	915	918	916	916	917	918	915	909	903	911	913	911	911	912	915	915	916	921	924	920	920	915					
26	916	915	916	916	915	913	910	906	906	904	901	898	900	902	906	912	916	919	925	940	934	920	920	910	913					
27	884	823	802	845	870	881	885	894	899	909	911	914	910	910	919	933	934	921	921	924	922	924	924	921	899					
28	920	920	921	923	920	919	912	909	903	902	904	906	906	915	917	919	922	921	916	914	917	920	918	910	915					
29 q	913	909	912	898	909	917	921	919	919	917	914	910	911	914	915	918	923	923	920	916	915	918	918	910	915					
30	914	914	919	918	920	916	906	903	901	899	886	883	895	904	934	975	975	976	960	950	921	921	913	895	921					
31	873	867	886	908	920	925	915	914	913	908	911	916	916	930	940	946	951	954	942	942	936	899	886	884	916					
Mean	896	884	883	886	895	903	905	908	912	915	915	915	916	921	929	937	945	947	942	938	931	921	909	901	915					

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

32 LERWICK (H)													14,000γ (0.14 C.G.S. unit) +													AUGUST 1943							
	Hour G.M.T.																																
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ					
1	377	376	397	398	402	405	387	381	376	363	356	352	337	352	374	382	428	468	455	438	424	408	392	393	393	393	393	393					
2	388	378	369	374	388	368	338	366	377	367	358	347	369	389	381	418	443	452	448	421	412	401	390	388	389	389	389						
3	271	289	369	357	355	382	361	342	349	358	370	358	372	369	393	411	416	416	443	433	404	398	381	380	374	374	374						
4	369	374	383	360	365	376	384	361	362	352	352	370	372	402	428	419	424	464	471	433	415	393	375	386	391	391	391						
5	375	326	368	359	352	352	337	337	360	351	371	380	381	371	410	423	447	436	419	413	407	386	376	383	380	380	380						
6	379	371	375	376	372	384	381	368	334	338	338	351	368	386	395	413	399	400	431	439	396	389	384	385	381	381	381						
7	377	380	392	393	393	393	384	382	368	309	337	338	344	367	401	389	414	408	398	394	392	389	385	382	380	380	380						
8 d	388	394	393	379	336	382	385	382	377	351	307	321	338	450	614	855	643	573	412	271	90	-66	134	-132	357	357	357						
9	-470	-112	-50	173	201	304	366	366	346	355	358	358	369	392	422	438	412	417	413	383	383	384	372	347	289	289	289						
10 q	350	333	304	330	366	372	373	369	363	356	358	366	370	377	369	374	385	392	398	394	392	393	383	385	369	369	369						
11 q	379	377	375	376	376	377	373	367	363	355	347	350	354	367	380	383	389	387	397	394	401	400	402	388	377	377	377						
12	394	375	372	394	393	388	380	367	369	359	354	355	364	374	378	394	394	402	411	411	414	415	402	377	385	385	385						
13 d	398	397	388	386	380	328	345	362	346	313	333	368	411	430	425	429	446	412	449	437	366	340	372	330	383	383	383						
14	266	372	375	379	373	378	372	368	359	340	334	354	377	373	413	414	417	432	423	438	409	373	314	369	376	376	376						
15	368	360	353	342	367	354	363	356	358	354	358	360	369	392	396	416	406	432	445	424	390	380	382	376	379	379	379						
16	376	366	306	320	359	364	337	326	352	352	317	329	361	372	390	383	406	432	423	414	404	411	389	374	369	369	369						
17	372	273	321	381	370	308	322	333	345	362	354	353	355	376	379	401	405	418	413	419	401	387	358	352	365	365	365						
18	358	325	380	363	326	338	364	349	318	315	352	371	388	365	363	371	423	421	389	394	384	380	377	373	366	366	366						
19	372	372	374	374	374	372	374	333	308	299	302	330	383	402	435	425	399	419	435	401	419	381	351	340	374	374	374						
20 d	269	292	287	334	360	363	300	361	353	329	314	318	342	375	404	387	394	407	396	393	384	409	368	333	353	353	353						
21	212	260	306	348	339	318	351	372	358	330	344	353	364	361	379	382	389	395	391	389	391	388	391	376	354	354	354						
22 q	373	381	380	380	377	380	374	369	366	357	352	353	365	369	379	397	387	394	401	393	393	394	385	382	378	378	378						
23 q	377	378	377	368	384	383	380	374	365	351	347	358	387	377	397	386	391	389	390	394	401	394	388	383	380	380	380						
24	335	369	360	371	377	295	335	374	369	359	358	361	366	372	377	416	424	429	418	393	389	388	404	379	376	376	376						
25	384	364	313	312	372	368	350	360	360	359	361	367	372	376	381	410	393	421	414	398	394	384	364	351	372	372	372						
26	369	378	364	330	370	378	338	321	329	365	358	350	363	383	379	391	400	411	405	404	397	385	389	380	372	372	372						
27 q	378	378	376	363	374	383	381	376	371	366	365	368	372	376	378	373	377	380	391	394	391	390	388	383	378	378	378						
28	393	391	383	385	385	392	396	391	389	377	359	343	363	391	409	407	422	411	397	397	400	242	171	285	370	370	370						
29	314	305	308	303	359	372	377	358	346	343	337	330	365	381	442	527	386	367	381	402	380	375	387	384	368	368	368						
30 d	379	350	243	141	332	406	401	389	332	304	291	323	354	458	558	541	427	439	413	380	230	195	-61	-404	309	309	309						
31 d	-260	-67	-171	-228	-404	-169	65	127	273	251	339	434	693	652	586	743	635	444	409	410	307	337	344	327	253	253	253						
Mean	310	326	325	330	338	348	354	354	353	343	344	354	377	393	413	435	423	422	415	403	379	362	350	327	366	366	366						

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, +2γ.

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

33	LERWICK (D)												11° +											AUGUST 1943							
	Hour G.M.T.																														
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean						
1	54.0	51.4	44.3	42.1	41.3	41.2	41.7	48.1	50.8	50.3	51.0	54.1	56.6	54.7	55.0	54.0	57.3	45.1	49.4	49.0	46.5	43.5	45.8	47.1	48.9						
2	46.2	47.4	53.1	49.1	46.1	42.3	46.2	42.4	44.5	46.6	49.4	54.6	55.2	57.1	54.0	48.4	51.0	52.2	42.1	49.0	48.3	46.6	47.5	44.0	48.5						
3	40.1	49.1	39.5	42.1	48.2	46.4	46.8	47.2	49.6	47.0	45.8	49.4	51.5	52.0	50.1	51.6	50.6	50.0	47.0	40.6	45.5	49.0	44.6	39.3	46.8						
4	40.0	45.9	45.4	48.3	45.2	45.4	43.1	47.0	44.6	46.7	48.3	46.9	48.4	45.0	46.1	44.4	51.3	49.0	49.3	52.4	51.5	50.3	50.1	46.4	47.1						
5	48.2	51.3	50.0	42.3	46.2	46.4	49.5	47.1	46.2	44.2	44.0	46.7	49.4	50.2	51.4	50.8	50.1	50.1	51.2	48.4	43.6	47.1	45.5	42.3	47.6						
6	43.5	46.5	46.6	43.9	45.3	45.5	44.8	45.8	47.4	50.4	52.4	54.4	54.4	54.8	50.4	50.3	48.6	50.6	45.3	42.8	44.5	46.3	47.3	47.5	47.9						
7	46.1	44.8	44.5	44.7	45.3	43.6	44.3	44.5	43.9	40.7	46.7	50.6	54.4	58.3	58.2	53.4	49.4	49.4	49.5	49.3	49.1	48.9	48.4	47.5	48.1						
8 d	46.6	45.6	45.3	44.6	48.3	47.1	42.4	43.4	46.9	47.3	49.7	51.3	52.3	55.1	52.4	46.6	57.2	65.5	60.9	45.7	42.6	19.8	45.1	27.2	47.0						
9	12.4	5.0	15.4	33.2	47.5	49.3	46.9	45.2	46.4	42.2	45.3	48.9	50.4	51.0	52.2	50.0	49.8	48.3	46.4	48.7	48.1	46.0	49.7	45.7	42.7						
10 q	45.6	40.7	44.6	44.5	41.4	42.3	41.6	42.8	42.8	43.9	45.4	48.5	52.2	52.9	52.4	50.4	48.5	47.9	47.5	47.8	47.6	45.6	46.3	47.5	46.3						
11 q	49.3	46.3	46.2	41.5	43.8	41.9	42.6	42.4	44.5	46.8	48.8	50.7	53.0	53.6	51.8	49.7	47.4	46.6	48.3	48.5	48.4	47.5	48.7	45.7	47.3						
12	47.6	48.3	48.4	39.8	39.7	39.3	40.3	43.7	43.7	45.4	48.5	50.0	52.1	52.6	50.7	50.5	50.9	51.6	51.4	51.4	50.8	49.7	49.3	47.6	47.6						
13 d	43.9	41.8	39.6	40.7	37.6	31.6	39.2	42.0	42.3	47.1	54.9	56.3	55.0	60.7	58.6	56.8	51.1	48.4	44.3	31.9	41.0	24.7	36.0	41.2	44.4						
14	46.2	45.9	38.6	41.3	42.7	41.4	42.7	43.7	42.9	45.0	47.5	52.1	52.4	53.7	56.8	51.4	50.6	43.4	51.9	47.2	54.4	44.2	35.6	43.0	46.4						
15	40.2	44.7	47.5	46.9	42.5	44.9	43.1	41.3	40.5	43.5	44.6	48.4	51.3	53.2	52.1	47.8	51.0	51.8	44.7	40.6	45.2	44.9	45.8	45.7	45.9						
16	48.8	47.4	50.5	49.0	44.0	41.7	42.6	43.5	44.6	44.3	46.2	50.6	55.9	55.1	55.5	52.5	51.7	43.7	44.8	47.7	45.1	46.7	46.5	44.6	47.6						
17	46.7	52.6	47.4	43.6	41.0	45.7	46.4	45.9	43.5	41.7	45.1	47.6	51.4	53.9	53.5	53.4	52.0	48.5	47.8	48.3	39.6	43.5	49.7	51.5	47.5						
18	48.1	52.0	46.6	41.5	44.3	45.7	43.0	40.8	40.9	32.3	39.2	48.0	56.5	51.5	56.1	54.3	44.1	48.4	43.6	45.7	46.2	46.5	47.0	46.7	46.2						
19	46.8	46.5	45.9	45.9	45.8	46.7	45.6	48.6	55.4	48.6	50.4	51.7	54.5	56.5	54.8	56.0	56.3	49.5	42.8	49.0	37.7	44.0	52.4	44.2	49.0						
20 d	52.5	40.8	40.6	43.7	43.8	45.9	53.0	51.7	51.9	49.9	50.5	52.5	54.4	56.0	50.8	51.4	49.3	48.7	46.0	45.0	46.5	47.5	46.5	45.4	48.5						
21	44.4	41.6	44.2	41.1	41.6	47.6	46.4	39.7	40.6	43.9	44.8	49.1	52.4	54.4	51.4	50.5	49.8	48.2	47.6	47.5	47.0	44.6	46.5	45.5	46.3						
22 q	49.2	45.4	45.2	44.7	44.1	43.4	43.5	44.6	44.9	46.4	47.7	49.8	51.4	51.3	51.2	50.8	49.7	48.0	47.4	47.8	48.5	46.6	44.7	45.7	47.2						
23 q	44.6	44.6	44.7	40.1	42.0	41.1	42.0	43.0	44.1	46.6	48.4	51.1	53.9	54.4	54.9	52.1	49.8	49.6	49.9	49.4	49.9	49.1	47.1	37.0	47.1						
24	37.5	34.4	37.5	42.8	39.4	49.3	62.6	44.7	44.7	45.9	47.3	49.9	52.2	53.0	53.1	53.6	53.5	46.7	49.9	50.8	49.7	44.1	40.8	42.6	46.9						
25	44.8	47.3	51.0	47.4	40.7	38.6	40.5	43.5	43.9	42.6	43.5	45.8	49.2	51.6	51.4	49.8	49.9	45.1	48.7	46.3	46.8	43.5	35.6	38.7	45.3						
26	38.9	40.7	41.9	45.6	45.8	48.5	51.0	46.7	48.9	43.6	46.2	49.9	50.5	52.6	52.3	52.1	49.4	49.7	48.2	43.7	43.4	46.5	44.6	46.3	47.0						
27 q	45.8	44.4	42.9	44.7	44.3	43.2	43.0	43.7	44.0	45.1	46.9	49.4	51.7	52.5	51.7	50.3	49.1	47.6	47.7	47.6	44.7	46.6	47.5	48.8	46.8						
28	46.6	44.5	42.6	40.5	38.4	40.5	42.9	42.6	43.7	46.3	48.4	53.1	58.4	64.0	59.2	56.7	52.9	47.7	46.6	45.1	43.3	39.4	34.5	18.9	45.7						
29	40.0	36.9	39.5	49.0	48.0	45.5	42.6	43.8	40.1	41.6	45.7	49.3	52.1	52.4	59.3	49.4	54.3	50.7	46.3	34.9	39.4	43.2	45.6	46.7	45.7						
30 d	47.8	51.1	69.4	53.1	40.7	42.4	36.5	38.6	42.4	46.5	48.9	51.8	49.7	50.9	53.5	50.1	49.5	39.5	46.5	39.5	43.9	40.8	20.0	44.7	45.7						
31 d	10.4	16.8	24.3	25.5	40.0	75.7	54.6	54.1	38.8	41.8	40.5	42.0	46.3	49.3	48.5	50.1	48.2	43.2	47.4	43.6	43.2	40.8	40.4	45.5	42.1						
Mean	43.3	43.3	44.0	43.3	43.4	44.8	44.9	44.6	44.8	45.0	47.2	50.1	52.6	53.7	53.2	51.3	50.8	48.5	47.8	46.0	45.9	44.1	44.4	43.6	46.7						

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

29

34	LERWICK (V)												46,000γ (0.46 C.G.S. unit) +												AUGUST 1943							
	Hour G.M.T.																															
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ				
1	851	845	885	906	912	904	904	905	899	899	901	910	921	921	928	931	929	973	950	956	938	911	906	906	912	912	912	912				
2	906	906	898	897	884	884	890	906	911	916	915	911	911	916	948	974	969	974	997	961	972	922	880	845	921	921	921	921				
3	803	763	825	836	850	870	892	911	910	920	925	927	924	948	957	948	949	951	957	969	953	930	885	871	903	903	903	903				
4	879	893	890	884	862	894	907	915	920	928	928	936	941	965	971	996	968	960	955	937	927	905	860	874	921	921	921	921				
5	882	829	776	845	857	878	898	900	911	922	921	915	920	931	944	964	975	970	968	954	940	930	895	890	909	909	909	909				
6	893	873	867	877	893	900	909	915	920	915	912	906	909	915	927	932	951	948	951	944	950	936	926	919	916	916	916	916				
7	916	916	916	919	920	917	920	920	923	936	931	927	932	934	928	951	950	945	937	931	927	925	924	925	928	928	928	928				
8 d	923	921	917	902	874	856	882	900	906	915	927	930	949	976	1048	1102	1075	1007	957	883	844	773	702	556	905	905	905	905				
9	902	621	629	637	723	804	831	878	903	926	934	941	956	964	982	1010	989	989	968	951	942	935	897	838	881	881	881	881				
10 q	841	868	860	854	863	885	911	924	928	931	933	934	931	933	930	924	927	925	928	932	934	932	928	916	911	911	911	911				
11 q	884	889	897	912	922	922	924	928	930	929	932	926	920	921	924	929	937	936	927	924	923	930	924	928	922	922	922	922				
12	914	907	891	902	917	920	921	917	914	915	914	916	912	914	920	924	931	929	928	925	924	921	928	873	916	916	916					
13 d	873	896	908	914	911	889	878	883	902	913	910	949	985	1015	993	989	992	986	960	927	880	789	842	830	917	917	917	917				
14	772	823	880	909	912	905	922	928	931	930	930	931	952	955	957	967	962	965	950	941	876	899	827	792	909	909	909	909				
15	863	897	900	884	907	912	913	921	927	929	929	927	923	931	951	960	947	937	964	922	934	857	873	898	917	917	917	917				
16	895	902	840	814	843	874	896	906	906	916	929	933	934	943	943	946	948	971	964	949	939	899	871	880	910	910	910					
17	832	763	755	854	883	868	883	906	923	929	931	928	924	924	934	945	948	957	953	943	951	933	902	851	901	901	901					
18	869	846	864	891	890	887	921	932	933	932	955	948	941	976	951	962	1000	975	966	941	931	927	924	924	929	929	929					
19	925	927	929	931	932	927	921	931	916	926	934	945	972	1003	1026	989	986	1007	992	973	910	889	847	732	936	936	936	936				
20 d	666	755	802	849	907	913	890	875	894	915	931	943	941	953	1001	973	957	951	979	974	954	902	864	835	901	901	901	901				
21	750	694	769	852	872	873	864	907	928	937	936	933	935	943	952	943	936	936	939	938	936	940	925	913	898	898	898	898				
22 q	891	910	925	929	933	931	933	933	935	936	935	935	933	940	934	934	936	936	940	944	938	932	934	931	932	932	932	932				
23 q	925	911	892	897	911	917	922	924	925	923	915	909	906	918	923	930	934	930	927	925	925	931	934	888	918	918	918	918				
24	822	840	853	879	901	881	807	864	904	921	923	925	925	925	925	932	967	993	974	955	943	939	918	922	910	910	910	910				
25	923	910	826	784	837	890	908	913	919	926	928	927	928	931	939	953	959	959	953	957	933	931	890	865	912	912	912	912				
26	883	910	916	880	887	887	896	927	916	917	925	926	926	926	933	932	942	945	953	953	936	931	919	914	920	920	920	920				
27 q	916	917	919	924	917	923	925	925	925	931	927	918	916	919	923	929	928	927	927	931	934	931	930	913	924	924	924	924				
28	907	897	904	902	900	910	913	916	910	910	918	921	929	938	1037	1018	1026	1043	995	975	955	819	675	734	919	919	919	919				
29	772	813	830	842	890	914	927	929	941	937	941	961	977	1007	996	1072	1007	983	970	950	918	921	906	894	929	929	929	929				
30 d	904	890	782	664	759	881	897	910	930	941	951	953	1016	1039	1038	1049	1060	1018	1006	980	803	669	717	739	900	900	900	900				
31 d	621	610	547	558	692	621	736	760	887	940	1018	1006	972	1076	1054	1067	1076	1013	988	927	763	827	833	819	850	850	850	850				
Mean	858	850	848	856	876	885	895	907	917	925	930	932	937	952	962	970	970	966	959	944	920	897	877	859	912	912	912	912				

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, +2γ.

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

35 LERWICK		TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.			
		Horizontal force			Declination			Vertical force												
		Maximum 14,000γ +		Range	Maximum 11° +		Range	Maximum 46,000γ +		Range										
		h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ									
1	18 3	524	321	12 25	203	1 4	58.6	28.5	18 0	30.1	17 59	1000	831	1 21	169	3, 1, 3, 2, 3, 4, 4, 3	23	1	88.8	
2	17 56	473	325	6 24	148	14 19	60.0	30.2	18 22	29.8	18 16	1030	835	23 52	195	3, 2, 3, 2, 3, 3, 4, 4	24	1	88.0	
3	18 24	464	78	0 52	386	0 55	57.7	32.6	0 38	25.1	19 2	990	725	1 5	265	6, 3, 3, 3, 3, 3, 4, 4	28	1	87.4	
4	17 51	508	333	3 37	175	19 24	59.5	35.6	15 5	23.9	15 5	1020	836	4 3	184	3, 3, 2, 3, 4, 4, 4, 3	26	1	87.1	
5	16 42	473	300	1 45	173	2 5	65.0	38.9	3 1	26.1	17 16	983	742	2 19	241	5, 3, 3, 3, 4, 3, 3, 3	27	1	87.1	
6	19 16	469	321	8 34	148	13 16	56.1	26.4	18 54	29.7	18 51	974	861	2 22	113	2, 2, 3, 2, 2, 3, 4, 2	20	1	87.1	
7	16 15	435	287	9 50	148	13 1	61.7	37.9	9 24	23.8	15 40	957	912	5 8	45	2, 2, 2, 4, 4, 3, 1, 1	19	1	87.0	
8 d	15 21	1167	-637	21 14	1804	18 9	99.8	-96.0	24 0	195.8	15 20	1164	469	24 0	695	2, 4, 3, 4, 7, 8, 8, 9	45	2	87.1	
9	15 6	466	-1083	0 4	1549	5 6	60.7	-117.8	0 2	178.5	0 10	1432	469	0 0	963	9, 7, 3, 2, 4, 4, 3, 4	36	2	86.9	
10 q	18 48	405	278	2 58	127	13 39	53.6	38.4	1 25	15.2	20 55	936	813	0 0	123	3, 4, 2, 1, 2, 1, 1, 2	16	0	86.3	
11 q	22 37	412	334	10 54	78	13 0	54.2	39.9	3 20	14.3	17 22	939	904	0 30	35	3, 2, 1, 1, 1, 2, 1, 2	13	0	86.0	
12	21 21	427	339	23 32	88	23 29	55.5	37.6	23 55	17.9	23 0	936	822	23 38	114	2, 2, 2, 0, 1, 2, 1, 4	16	0	85.6	
13 d	13 45	497	227	21 24	270	13 5	68.2	10.3	21 40	57.9	13 32	1033	698	21 14	335	3, 4, 3, 5, 5, 4, 5, 5	34	1	85.2	
14	19 59	522	168	0 22	354	20 18	63.4	31.7	22 49	31.7	15 0	978	753	0 13	225	5, 2, 2, 3, 3, 3, 5, 5	28	1	85.0	
15	18 58	472	318	3 11	154	13 40	56.4	31.6	21 13	24.8	18 46	975	829	21 43	146	3, 3, 2, 2, 3, 3, 4, 3	23	1	85.0	
16	17 0	446	272	10 59	174	12 48	59.6	38.7	20 49	20.9	17 31	978	806	3 38	172	4, 3, 4, 4, 3, 3, 3, 3	27	1	85.0	
17	17 19	436	197	1 41	239	1 50	62.1	35.6	20 14	26.5	17 50	974	701	1 46	273	5, 4, 3, 2, 2, 3, 3, 4	26	1	85.0	
18	16 52	469	285	10 10	184	12 50	66.0	24.1	9 9	41.9	16 38	1016	836	1 32	180	4, 3, 4, 5, 4, 4, 4, 0	28	1	85.0	
19	15 21	477	228	24 0	249	15 23	62.0	14.0	20 20	48.0	14 17	1037	693	24 0	344	0, 2, 4, 4, 4, 4, 5, 5	28	1	84.9	
20 d	21 46	441	228	0 0	213	0 47	67.4	20.4	0 8	47.0	14 30	1012	622	0 39	390	5, 4, 4, 3, 4, 2, 3, 5	30	1	85.0	
21	19 52	402	162	0 46	240	13 29	57.4	36.5	4 4	20.9	14 28	955	679	1 10	276	5, 4, 4, 3, 2, 2, 2, 3	25	1	85.1	
22 q	21 24	408	349	11 10	59	12 43	52.5	42.0	5 53	10.5	19 17	946	890	0 26	56	2, 1, 1, 0, 1, 2, 1, 2	10	0	86.0	
23 q	14 9	431	314	24 0	117	14 4	57.3	28.8	23 48	28.5	22 45	936	866	23 35	70	2, 2, 0, 1, 3, 2, 2, 4	16	0	86.7	
24	16 5	453	249	5 46	204	5 15	75.2	29.9	0 3	45.3	17 26	999	790	0 42	209	3, 4, 4, 2, 2, 3, 2, 3	23	1	87.0	
25	15 45	439	362	2 59	177	2 9	55.4	29.9	22 30	25.5	19 49	970	764	3 32	206	4, 4, 2, 2, 2, 3, 3, 4	24	1	87.0	
26	17 26	426	300	7 54	126	6 10	54.5	33.6	19 47	20.9	19 44	960	851	0 0	109	3, 4, 3, 2, 2, 3, 3, 2	22	1	87.7	
27 q	20 19	398	356	3 51	42	13 17	53.1	41.0	7 2	12.1	20 50	938	907	23 50	31	1, 2, 0, 1, 2, 1, 2, 2	13	0	87.5	
28	13 18	477	75	21 54	402	14 6	73.8	9.7	23 33	64.1	14 32	1081	632	22 14	449	1, 2, 2, 3, 5, 4, 3, 6	26	1	87.1	
29	15 16	674	224	3 6	450	14 55	72.8	20.8	19 33	52.0	15 19	1131	739	0 18	392	4, 5, 2, 3, 5, 6, 4, 3	32	1	86.6	
30 d	15 9	643	-614	23 15	1257	23 56	79.2	-0.5	23 21	79.7	16 2	1102	473	24 0	629	5, 7, 4, 4, 6, 6, 7, 8	47	2	86.2	
31 d	12 54	888	-885	4 37	1773	4 42	139.3	-52.2	0 40	191.5	13 47	1227	400	2 11	827	8, 8, 6, 7, 6, 7, 6, 4	52	2	85.9	
Mean	-	-	504	126	-	378	-	65.1	18.0	-	47.1	-	1020	747	-	273	3.3	26.0	0.94	80.6

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

36	LERWICK (H)													14,000γ (0·14 C.G.S. unit) +													SEPTEMBER 1943					
	Hour G.M.T.																															
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean							
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ							
1	157	309	269	349	373	343	329	344	330	329	316	333	388	397	384	393	422	452	423	387	380	380	381	390	357							
2	372	358	242	332	363	367	360	360	345	331	333	355	358	404	464	382	407	408	409	383	380	370	333	306	363							
3 d	295	245	299	315	296	302	301	335	339	330	334	338	370	402	470	427	389	414	397	393	382	327	265	374	347							
4	382	359	371	357	351	326	296	338	337	350	338	338	351	385	359	385	415	408	443	410	385	385	379	368	367							
5	369	331	318	281	356	356	348	364	355	344	343	337	353	367	382	406	428	405	402	388	396	380	360	338	363							
6	363	371	376	361	362	357	363	360	364	358	351	350	359	367	375	378	391	395	399	389	388	385	384	382	372							
7 q	382	374	380	377	378	371	372	367	360	358	354	354	355	373	372	380	392	397	389	398	402	393	391	388	377							
8	385	391	380	385	383	381	376	374	364	360	358	360	363	374	391	380	402	475	435	393	354	367	304	363	379							
9	133	304	369	363	317	355	381	375	358	348	338	355	366	385	391	376	393	404	405	402	393	279	332	291	351							
10	244	275	207	375	381	380	376	374	367	338	315	335	355	380	413	427	405	392	393	391	388	383	385	388	361							
11	359	281	299	346	346	374	380	371	351	358	355	357	367	369	368	388	411	377	393	390	395	391	360	360	364							
12	272	344	354	371	382	384	380	373	363	339	347	344	363	367	369	373	394	410	417	401	383	379	388	385	370							
13	360	344	268	251	374	374	361	369	365	358	339	338	351	374	383	388	397	397	402	402	387	382	388	381	364							
14	369	375	377	359	349	385	383	371	361	353	329	355	388	386	387	376	381	391	393	404	411	388	374	360	375							
15	387	363	369	366	372	377	366	359	358	356	352	360	367	373	374	378	407	396	397	396	392	385	361	359	374							
16 q	388	377	380	380	381	380	379	376	368	363	363	363	370	383	389	400	379	380	391	396	406	388	384	391	381							
17	371	389	380	364	351	372	377	368	363	362	360	358	361	368	368	374	385	389	397	398	393	386	375	386	375							
18 q	384	383	380	377	376	378	379	376	373	365	354	355	360	366	371	372	381	391	393	390	392	409	377	324	375							
19	358	373	371	380	389	374	368	381	374	363	349	351	366	365	370	379	389	394	388	393	391	390	393	381	376							
20 q	383	384	385	381	380	385	382	374	366	357	357	359	370	374	381	377	389	399	402	404	406	398	388	379	382							
21	375	397	389	386	392	388	374	360	363	365	356	327	359	360	385	374	381	394	401	383	384	389	394	385	378							
22	352	311	334	370	329	380	376	365	367	362	358	355	371	376	400	396	388	399	396	385	389	385	388	389	372							
23	377	363	358	339	359	380	369	376	369	351	351	356	362	369	379	389	382	385	389	393	396	401	382	374	373							
24 q	355	372	385	388	389	385	384	381	374	361	360	361	364	370	377	384	389	389	392	393	405	392	394	394	381							
25	393	393	393	392	397	408	375	360	376	364	358	361	342	369	363	385	382	384	387	388	386	385	389	394	380							
26 d	386	387	384	380	393	379	359	354	371	355	356	366	369	399	436	408	406	393	381	385	397	377	386	363	382							
27	351	281	335	322	377	385	374	380	372	357	330	339	363	370	374	389	383	386	423	405	368	406	378	309	365							
28 d	228	289	261	209	228	354	368	371	350	318	325	351	380	408	397	419	405	396	396	382	371	370	362	369	346							
29 d	330	303	314	283	361	389	385	364	317	303	318	379	431	385	464	445	474	472	402	363	372	318	308	368	369							
30 d	329	210	185	236	267	345	360	366	352	352	347	355	370	376	386	421	394	394	428	408	330	331	173	330	335							
Mean	340	341	337	346	358	370	366	366	359	350	345	351	366	378	391	392	398	402	402	393	387	377	362	366	368							

Corrections to be applied to all values: H, -6γ; D, -4·2'; V, nil.

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

37 LERWICK (D)		11° +												SEPTEMBER 1943												
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
1		54·7	44·9	43·6	44·6	41·5	44·0	47·9	47·9	48·1	46·1	48·4	50·0	49·7	51·1	52·0	48·5	48·0	41·6	41·7	46·2	48·7	47·4	46·1	45·5	47·0
2		44·9	37·0	50·4	44·4	40·5	44·6	47·9	47·9	48·8	50·2	52·3	49·3	51·9	51·3	42·6	47·8	51·1	49·1	47·4	39·4	48·2	43·7	46·1	38·5	46·3
3 d		39·2	44·9	46·4	42·7	50·4	56·2	54·4	47·2	47·5	45·9	47·9	45·2	46·1	50·4	47·3	46·7	48·9	36·5	44·5	44·6	44·4	52·3	53·1	36·5	46·6
4		39·6	44·6	45·9	34·2	45·1	45·8	48·9	51·5	47·5	46·6	46·7	48·1	49·1	51·2	48·5	47·3	48·6	42·7	41·4	47·1	43·8	46·5	46·9	45·7	46·0
5		46·3	49·9	49·7	51·7	44·6	44·4	43·3	41·7	43·8	44·6	46·3	45·1	47·5	51·0	51·5	53·0	43·7	46·7	45·5	43·9	42·2	44·2	39·5	44·6	46·0
6		44·9	49·0	45·3	44·5	43·4	44·8	45·4	45·0	44·0	43·7	45·4	46·9	49·6	51·3	51·2	49·4	46·6	45·1	41·6	46·9	47·6	46·8	46·5	45·7	46·3
7 q		45·3	48·6	45·5	44·9	42·9	42·4	43·6	43·9	44·2	45·3	45·9	48·2	50·1	52·7	52·1	50·5	50·4	50·4	46·3	47·1	49·0	46·4	45·5	44·1	46·9
8		44·9	40·4	39·2	37·5	39·6	39·6	40·5	41·2	43·1	44·5	47·6	51·2	52·6	52·8	54·8	53·1	53·6	55·9	34·4	42·3	41·7	26·1	46·3	38·2	44·2
9		27·3	40·9	45·4	31·8	40·2	44·6	42·4	42·3	44·5	44·7	45·9	49·3	52·0	54·1	56·0	53·9	51·9	49·5	47·4	43·3	45·7	43·8	44·6	25·2	44·4
10		36·2	32·3	48·1	43·5	36·2	40·9	42·3	42·4	42·2	45·9	47·3	49·2	52·7	51·0	52·4	47·5	46·2	50·0	47·3	48·5	44·6	45·5	42·7	38·6	44·7
11		37·8	49·6	53·1	41·6	39·7	40·9	42·3	42·6	43·9	43·8	45·1	47·9	51·9	55·0	51·0	50·6	48·8	46·2	47·8	47·7	47·1	32·1	29·3	37·7	44·7
12		47·7	43·7	41·5	43·2	41·5	42·0	42·7	41·7	43·0	44·2	47·5	49·1	50·0	51·9	50·8	49·4	48·5	49·3	37·5	38·4	44·2	47·5	47·7	46·5	45·4
13		43·0	45·9	33·5	42·6	42·8	42·6	43·7	43·8	44·0	46·2	48·0	52·8	53·0	55·0	53·9	50·6	40·5	47·1	36·7	41·7	44·3	44·5	44·6	43·5	45·2
14		52·6	44·5	38·1	39·8	45·8	41·6	41·6	43·3	44·1	49·9	51·1	53·9	52·8	49·2	50·0	49·2	46·6	46·5	46·7	28·2	31·6	40·7	41·6	51·0	45·0
15		45·8	39·8	40·6	42·1	41·8	43·6	44·5	42·7	43·7	45·7	48·6	50·7	51·5	52·1	50·4	45·5	48·7	48·7	44·6	37·0	44·4	44·5	55·6	44·7	45·7
16 q		44·5	41·9	42·5	42·5	43·5	42·8	42·4	43·2	43·6	45·6	47·5	49·9	51·4	51·7	51·1	50·4	43·0	48·5	48·6	46·6	42·2	44·6	42·8	44·9	45·7
17		41·8	39·5	36·5	36·7	43·5	45·7	45·6	42·6	43·5	45·4	47·8	49·6	51·3	52·5	51·5	47·9	48·0	46·9	47·0	46·1	40·6	44·2	44·0	46·4	45·2
18 q		43·7	43·5	42·9	43·5	43·8	44·6	43·7	43·0	42·2	43·2	45·1	46·4	47·7	48·0	48·5	47·6	46·9	46·8	47·7	47·2	47·7	44·5	34·3	25·0	44·1
19		40·2	42·9	44·2	43·6	43·5	43·0	46·9	44·2	43·1	44·1	46·4	48·9	49·7	50·1	49·3	48·5	48·5	48·0	44·6	46·5	47·0	46·3	40·7	41·0	45·5
20 q		43·5	44·4	44·9	43·1	43·5	44·6	44·3	42·6	42·6	43·6	45·4	47·5	51·3	52·8	54·3	52·1	50·8	50·7	48·8	48·4	49·2	45·8	40·0	48·7	46·8
21		34·8	39·2	33·5	39·9	41·2	41·5	41·5	46·1	45·6	45·9	47·4	49·4	51·7	54·1	52·5	52·4	49·9	47·4	47·9	34·6	40·5	44·6	41·8	41·0	44·3
22		43·1	45·2	46·5	39·5	44·9	44·2	44·3	44·3	44·5	45·4	47·1	49·7	52·5	53·9	51·7	51·4	49·7	40·5	41·8	41·4	41·7	45·3	46·5	47·4	45·9
23		48·4	51·5	47·3	48·4	45·8	44·3	45·1	44·6	45·7	45·4	46·3	50·1	50·5	50·5	50·6	50·0	49·7	47·4	46·4	45·6	41·6	39·6	37·8	37·2	46·2
24 q		46·9	46·9	44·6	43·0	42·9	42·5	43·0	42·3	42·9	44·4	46·7	49·2	50·7	50·2	50·4	49·1	48·1	47·5	48·4	47·8	42·8	43·6	42·6	43·7	45·8
25		45·1	44·6	43·8	44·1	44·0	43·3	44·0	50·3	49·5	45·3	45·1	49·5	49·9	53·6	50·1	49·6	48·7	45·1	46·5	45·6	43·7	43·0	43·5	43·2	46·3
26 d		43·2	44·5	44·4	44·8	44·8	50·9	50·4	49·4	47·8	47·9	46·0	49·7	52·4	56·4	59·0	54·3	51·6	44·4	42·6	43·2	39·6	39·6	37·8	39·5	46·7
27		47·4	49·5	48·2	41·1	41·8	48·8	44·7	42·3	45·4	45·9	46·4	47·5	50·4	52·7	50·7	46·5	48·8	44·6	22·1	25·0	38·1	37·6	41·3	38·5	43·6
28 d		59·2	39·2	27·2	40·0	45·7	47·4	45·7	46·3	44·7	42·5	43·1	45·2	49·6	42·0	52·7	49·1	49·2	38·2	37·4	41·6	40·8	34·3	38·6	38·1	43·2
29 d		35·5	47·9	48·3	50·1	53·4	52·5	45·8	49·1	46·9	41·6	43·6	49·9	46·7	50·3	40·8	48·2	41·2	43·4	33·7	33·3	42·0	46·7	49·3	39·8	45·0
30 d		39·2	48·1	54·6	42·6	53·1	46·8	42·9	44·2	42·4	42·9	43·2	38·5	44·6	47·5	49·7	43·7	46·3	49·3	27·4	38·3	44·2	21·4	29·5	31·7	42·2
Mean		43·6	44·2	43·9	42·4	43·7	44·7	44·7	44·7	44·8	45·2	46·7	48·6	50·4	51·5	50·9	49·5	48·1	46·5	42·7	42·5	43·5	42·4	42·9	41·1	45·4

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

31

38 LERWICK (V)		46,000γ (0.46 C.G.S. unit) +												SEPTEMBER 1943												Mean
Hour G.M.T.		0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
γ		γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	752	759	809	867	905	911	908	917	933	955	961	958		981	996	997	995	998	1001	928	929	944	938	927	902	924
2	869	854	788	795	880	910	920	927	939	946	945	962		967	974	1033	999	987	1008	1020	980	936	912	817	817	924
3 d	791	795	819	867	853	842	864	900	931	959	965	1009		1011	1021	1080	1037	985	992	965	970	946	785	712	842	914
4	889	890	896	901	896	893	891	895	914	937	949	964		940	942	974	959	958	999	972	935	939	941	930	919	930
5	924	890	819	810	840	896	912	927	937	942	947	960		946	937	932	948	974	989	976	975	938	911	882	825	918
6	868	871	899	912	909	912	918	930	935	936	938	939		941	939	938	939	947	954	959	949	942	941	938	935	929
7 q	931	920	905	923	927	935	932	933	932	932	932	933		932	933	936	937	933	936	948	944	940	950	944	932	933
8	927	898	903	911	922	926	927	923	923	920	922	924		922	926	927	927	931	968	1004	972	908	852	769	771	913
9	767	754	830	869	858	842	887	911	920	932	938	939		938	939	957	957	945	965	975	980	949	745	749	773	888
10	680	684	711	768	866	908	916	929	935	943	958	964		948	943	948	993	1016	975	964	941	947	906	833	873	898
11	899	844	810	804	865	905	915	920	927	931	933	934		936	945	950	955	977	972	950	940	937	918	898	881	914
12	828	826	881	906	923	930	931	934	937	937	944	944		939	935	933	934	936	958	980	937	934	914	905	913	922
13	895	875	827	798	867	893	919	918	925	927	935	944		953	954	964	972	988	963	970	931	928	927	925	915	921
14	837	880	904	913	880	895	910	918	919	920	932	928		943	962	949	942	944	943	940	939	917	912	913	864	917
15	826	890	902	906	911	916	922	932	931	930	929	924		928	934	946	957	948	959	958	946	933	928	872	835	919
16 q	875	910	923	930	933	934	933	930	930	925	923	923		921	924	938	951	984	960	943	944	932	922	925	906	930
17	893	892	902	908	910	908	917	927	930	928	926	923		922	924	934	943	939	937	936	939	947	936	910	880	921
18 q	909	924	926	928	930	932	932	931	930	929	928	922		920	922	924	928	930	933	939	944	940	901	846	811	919
19	863	894	914	921	920	925	933	928	930	928	933	931		923	926	929	933	937	938	944	939	938	934	932	930	926
20 q	928	928	928	928	926	925	929	933	933	933	924	921		915	918	923	923	923	923	926	929	928	942	948	896	926
21	886	868	864	901	911	914	923	918	913	917	919	940		942	940	940	934	938	942	944	970	965	946	929	917	924
22	844	819	830	864	852	886	909	928	928	933	932	931		929	942	961	968	955	960	940	943	944	942	933	909	916
23	904	886	858	872	880	898	911	916	923	933	934	931		929	929	930	932	942	942	937	936	938	922	912	908	917
24 q	905	892	908	919	923	927	929	930	930	930	928	928		927	925	924	927	930	932	934	937	925	922	923	924	924
25	925	928	927	926	922	917	925	919	906	918	924	931		939	942	945	940	952	949	936	933	933	934	933	924	930
26 d	927	926	928	917	906	900	903	906	908	917	922	925		933	937	1026	1075	1018	1042	1026	1004	936	857	877	884	942
27	877	782	797	765	807	838	870	905	916	924	943	963		953	946	970	970	960	966	940	921	927	861	881	827	896
28 d	667	746	714	737	749	815	886	909	932	957	965	970		1018	1045	1012	1014	1025	1019	971	964	947	886	864	887	904
29 d	864	819	795	753	786	828	888	909	937	965	979	1033		1093	1022	1054	1050	1090	1073	1031	890	936	870	790	842	929
30 d	879	802	737	741	751	795	888	914	934	949	963	1020		996	961	963	997	986	970	963	893	890	795	742	733	886
Mean	861	855	855	865	880	895	912	921	927	934	939	947		949	949	961	965	966	969	961	945	935	902	879	873	918

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, nil.

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

39 LERWICK												SEPTEMBER 1943			
	TERRESTRIAL MAGNETIC ELEMENTS											3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +
	Horizontal force			Declination			Vertical force								
	Maximum 14,000γ +	Minimum 14,000γ +	Range	Maximum 11° +	Minimum 11° +	Range	Maximum 46,000γ +	Minimum 46,000γ +	Range						
	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ						°A.
1	17 30 485	0 0 39	485	0 22 67.2	17.0 18 43	50.2	17 26 1041	711 0 46	330	7, 3, 2, 3, 4, 4, 5, 3	31	1	86.1		
2	14 5 512	169 2 34	343	22 10 58.1	30.7 23 20	27.4	14 33 1048	738 2 40	310	4, 5, 2, 3, 5, 3, 4, 5	31	1	86.0		
3 d	14 25 554	142 1 40	412	22 9 74.2	26.2 23 6	48.0	14 43 1100	649 22 42	451	5, 5, 4, 4, 5, 4, 3, 6	36	1	86.0		
4	18 46 477	259 6 4	218	7 35 54.4	27.4 19 28	27.0	17 34 1010	879 1 56	131	3, 4, 4, 3, 4, 3, 4, 2	27	1	86.1		
5	16 35 453	227 3 16	226	3 33 59.4	29.3 20 10	30.1	17 29 999	795 3 37	204	4, 4, 2, 2, 2, 3, 3, 4	24	1	86.2		
6	17 31 408	333 11 16	75	0 51 53.5	36.7 0 0	16.8	17 58 968	853 0 0	115	3, 2, 2, 2, 0, 3, 3, 0	15	0	86.0		
7 q	20 38 406	348 12 12	58	1 46 55.4	41.9 5 3	13.5	21 19 953	894 2 13	59	3, 1, 0, 1, 2, 1, 2, 2	12	0	86.0		
8	17 56 569	270 22 33	299	18 0 63.4	8.1 21 33	55.3	18 7 1060	739 22 30	321	3, 2, 2, 2, 2, 5, 5, 5	26	1	86.2		
9	14 34 438	-51 0 50	489	21 14 69.3	14.2 0 44	55.1	19 17 989	682 21 40	307	7, 4, 3, 3, 3, 3, 3, 6	32	1	86.7		
10	16 9 470	139 2 39	331	2 47 63.5	24.7 1 26	38.8	16 34 1036	628 1 8	408	5, 5, 2, 3, 3, 4, 3, 4	29	1	87.0		
11	16 19 440	253 1 39	187	2 25 58.8	19.7 22 27	39.1	16 44 988	796 3 11	192	4, 4, 2, 2, 3, 4, 2, 4	25	1	87.4		
12	19 1 444	218 0 26	226	13 17 54.0	24.2 18 59	29.8	18 31 995	801 0 59	194	5, 2, 1, 3, 1, 3, 4, 2	21	1	87.0		
13	18 58 438	118 2 57	320	13 51 57.4	19.8 18 49	37.6	16 12 1007	764 3 19	243	5, 6, 2, 2, 3, 4, 4, 3	29	1	87.4		
14	20 18 435	313 10 56	122	0 10 61.4	15.6 19 26	45.8	13 25 974	792 23 56	182	4, 3, 2, 3, 3, 3, 4, 4	26	1	87.2		
15	16 40 420	317 23 13	103	22 46 61.6	32.7 19 15	28.9	18 4 965	795 0 0	170	4, 2, 2, 2, 2, 3, 3, 4	22	1	86.7		
16 q	20 30 427	355 10 49	72	13 7 53.2	37.2 20 39	16.0	16 15 991	859 0 0	132	3, 1, 1, 1, 2, 3, 3, 3	14	1	86.2		
17	19 15 406	338 4 19	68	13 35 53.1	35.1 2 39	18.0	20 13 952	870 23 16	82	3, 3, 1, 0, 1, 1, 2, 3	14	0	86.1		
18 q	21 41 425	287 23 3	138	14 50 49.0	19.2 23 15	29.8	19 20 946	790 23 33	156	2, 1, 1, 1, 0, 1, 1, 5	12	0	85.9		
19	17 54 401	338 10 38	63	13 10 52.2	30.8 0 0	21.4	18 29 949	829 0 0	120	4, 2, 2, 1, 2, 2, 2, 2	17	0	85.5		
20 q	14 21 415	352 9 59	63	14 21 56.8	34.6 22 22	22.2	22 20 956	870 24 0	86	1, 1, 1, 1, 3, 2, 1, 3	13	0	85.0		
21	17 47 411	314 11 35	97	13 42 56.1	27.1 19 53	29.0	20 6 979	844 2 20	135	3, 3, 3, 3, 3, 3, 4, 3	25	1	84.0		
22	15 7 427	253 11 49	174	12 56 57.4	30.7 17 24	26.7	14 56 977	801 0 55	176	4, 4, 2, 1, 3, 3, 2, 3	22	1	83.1		
23	21 1 410	324 10 3	86	1 40 57.3	35.5 23 29	21.8	16 57 946	840 2 14	106	3, 3, 2, 2, 1, 2, 3, 3	19	1	83.0		
24 q	20 22 419	346 0 43	73	0 48 52.4	39.6 0 0	12.8	20 5 940	881 1 15	59	3, 0, 0, 1, 1, 1, 2, 1	9	0	83.2		
25	5 34 415	330 12 37	85	13 25 56.3	41.6 6 45	14.7	17 0 960	903 8 29	57	0, 2, 3, 2, 3, 2, 1, 1	14	0	83.0		
26 d	14 58 507	299 21 23	208	15 0 65.2	13.1 20 56	52.1	15 3 1159	810 21 20	249	1, 3, 3, 3, 5, 5, 5, 5	30	1	82.4		
27	18 57 483	202 24 0	281	1 1 64.5	8.7 18 57	55.8	14 46 984	738 3 23	246	4, 4, 3, 3, 3, 3, 5, 6	31	1	81.3		
28 d	15 51 460	67 0 10	393	0 50 71.0	17.2 21 35	53.8	12 46 1081	619 0 29	462	6, 5, 4, 3, 4, 4, 3, 4	33	1	80.9		
29 d	17 55 562	222 22 54	340	22 38 64.4	5.0 19 5	59.4	12 19 1166	733 2 36	433	4, 5, 4, 5, 5, 4, 5, 5	37	1	80.9		
30 d	18 36 457	18 22 59	439	2 47 68.1	4.6 21 24	63.5	11 48 1060	681 23 15	379	6, 5, 4, 4, 4, 4, 5, 6	38	2	81.4		
Mean	- - 452	237 - -	216	- - 59.6	24.9 - -	34.7	- - 1006	786 - -	220	2.9	23.8	0.77	85.0		

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

40 LERWICK (H)													14,000γ (0.14 C.G.S. unit) +													OCTOBER 1943			
	Hour G.M.T.																												
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean				
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ				
1 d	251	254	369	369	314	377	365	364	346	336	325	344	369	388	409	419	405	388	380	392	386	373	364	243	355				
2 d	268	188	323	380	390	385	351	366	366	343	327	352	385	377	409	396	452	427	404	363	352	368	352	273	358				
3 d	306	337	341	346	342	367	369	333	310	308	326	327	369	388	408	400	455	398	376	382	381	408	330	255	357				
4	273	321	292	377	385	377	360	377	367	329	327	338	354	378	380	386	396	388	384	383	391	388	394	380	364				
5	361	331	358	385	387	383	381	383	377	360	357	356	360	376	377	382	384	386	385	402	385	381	386	389	375				
6 q	374	382	389	382	385	389	391	388	373	360	352	356	363	373	372	379	382	388	390	392	391	392	391	392	380				
7	392	374	393	387	391	397	400	395	388	379	378	369	387	397	371	366	380	399	405	393	390	391	372	364	386				
8	356	357	372	381	384	382	378	371	368	359	366	341	337	372	380	397	403	398	408	406	382	348	293	275	367				
9 d	361	360	377	377	300	369	362	279	299	344	354	355	377	380	394	377	422	420	383	389	368	392	391	380	367				
10	376	376	371	380	381	386	391	374	367	365	361	364	372	391	384	411	398	377	374	381	380	383	383	388	380				
11	378	376	381	381	384	383	379	373	365	357	352	355	352	373	381	385	385	380	389	384	391	392	385	387	377				
12	383	371	392	394	392	377	381	369	371	365	364	364	366	368	373	378	386	378	388	408	389	385	374	372	379				
13	385	380	374	381	388	388	386	382	377	369	364	361	368	365	376	385	388	384	388	390	389	387	385	381	380				
14 q	380	378	385	384	384	384	386	378	373	366	364	369	374	381	384	385	386	389	385	387	393	394	391	388	382				
15 q	385	385	386	388	386	389	389	387	380	369	365	372	377	382	385	388	388	388	391	393	391	392	389	389	385				
16 q	390	388	387	389	392	391	390	389	384	372	367	370	378	386	387	382	383	388	390	393	394	408	406	390	387				
17	391	389	392	394	393	398	392	372	366	363	365	361	363	363	377	377	378	384	383	381	375	393	393	384	380				
18 q	385	383	383	385	387	387	385	380	372	364	363	364	370	379	377	384	388	385	373	382	390	389	395	390	381				
19	377	382	381	374	379	390	393	382	369	355	355	360	368	383	383	390	393	394	393	392	393	388	389	389	381				
20	388	388	390	391	389	392	388	383	379	369	366	371	378	385	394	385	385	397	420	374	380	391	388	374	385				
21	357	373	382	377	380	380	378	378	373	363	363	364	370	374	380	380	381	385	385	385	383	382	382	384	377				
22	381	381	382	380	377	383	388	395	390	378	369	341	349	362	376	401	395	381	380	374	374	372	376	360	377				
23	330	339	370	373	376	383	382	377	368	369	365	360	363	366	365	371	378	381	384	381	375	380	367	364	369				
24	371	382	381	384	379	380	387	391	379	339	300	358	351	381	418	399	382	375	365	369	318	355	329	322	366				
25	339	167	191	321	354	366	365	349	313	330	355	365	374	375	367	369	375	366	378	395	388	375	369	373	347				
26 d	331	333	347	337	330	302	260	326	302	313	330	376	375	488	435	372	368	398	382	349	390	384	359	334	355				
27	359	339	358	373	322	370	364	331	338	349	354	358	372	367	368	377	374	383	398	380	337	334	314	253	353				
28	317	204	246	331	316	332	372	363	363	352	358	364	372	371	396	435	369	393	402	371	386	365	377	360	355				
29	330	185	291	352	358	376	379	374	355	337	354	354	350	368	369	395	394	379	396	382	362	352	339	374	354				
30	376	361	296	346	388	391	360	372	373	360	350	364	420	369	382	374	383	365	382	391	379	348	346	385	369				
31	355	349	367	376	373	360	372	369	352	356	349	358	377	402	367	371	378	382	376	392	380	355	333	385	368				
Mean	355	339	356	373	371	378	375	369	361	354	353	358	369	381	385	387	391	388	388	385	379	379	369	357	371				

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, +1γ.

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

41	LERWICK (D)												11° +											OCTOBER 1943												
	Hour G.M.T.																																			
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
1 d	34.2	47.2	46.8	45.5	50.0	48.3	47.6	45.4	45.4	45.3	46.9	48.5	51.3	46.6	36.1	43.9	48.4	44.6	46.6	38.5	37.8	40.8	44.4	49.2	45.0											
2 d	33.1	31.3	34.4	38.5	41.7	43.4	49.0	46.0	44.6	46.8	46.4	47.0	50.7	47.3	47.2	51.7	25.9	44.5	27.9	45.4	36.1	38.7	40.9	56.6	42.3											
3 d	42.5	40.7	41.2	41.1	44.5	47.0	50.8	47.7	52.1	47.0	48.4	51.9	50.6	49.6	40.3	45.8	36.1	40.9	41.6	42.1	39.4	38.2	31.2	34.0	43.5											
4	49.3	41.6	51.5	44.7	42.8	46.1	48.6	43.8	43.9	43.7	44.7	47.0	49.8	47.1	47.6	49.4	36.5	44.1	46.2	45.7	42.8	43.9	45.0	43.8	45.4											
5	44.5	51.2	46.1	43.9	43.5	44.7	44.2	43.6	42.5	44.2	45.3	47.2	49.2	49.9	49.2	47.8	46.7	45.8	42.7	33.7	38.9	44.6	44.7	47.5	45.1											
6 q	47.7	44.7	43.3	41.7	44.1	44.8	44.2	43.2	43.7	45.5	46.7	50.3	51.5	51.4	50.6	49.7	46.7	45.6	45.0	45.5	45.1	45.1	44.7	44.1	46.0											
7	43.9	44.7	33.7	40.2	43.2	42.9	42.1	41.3	40.8	42.5	45.7	47.6	52.8	57.0	59.0	56.6	50.6	49.8	48.2	45.2	41.6	40.1	29.8	32.3	44.7											
8	34.9	32.8	42.3	43.7	42.7	42.6	42.9	41.6	42.8	43.5	48.2	52.3	54.9	53.0	52.0	52.6	51.6	46.1	47.2	38.8	34.7	37.0	35.6	34.9	43.7											
9 d	40.6	41.8	38.2	41.3	40.8	44.6	47.7	53.7	61.4	50.9	49.3	50.4	49.8	51.8	50.5	50.4	35.9	35.8	41.8	38.7	46.5	36.2	36.8	38.8	44.7											
10	47.7	40.9	40.3	42.5	41.7	42.6	44.2	43.7	40.9	42.4	45.8	48.6	49.4	51.3	44.7	44.7	29.2	40.1	46.7	46.0	45.4	44.6	40.5	42.6	43.6											
11	42.7	44.4	44.7	43.8	43.3	42.8	43.1	43.8	43.6	42.8	44.1	47.1	45.6	46.8	47.6	46.3	45.5	45.6	44.7	43.2	35.6	38.9	43.1	46.2	44.0											
12	44.2	40.1	41.6	41.0	40.1	45.0	45.2	45.4	45.7	44.7	45.0	46.4	47.0	47.4	46.3	46.3	45.5	44.1	43.2	39.9	42.6	42.3	47.7	43.6	44.2											
13	42.9	41.0	41.9	43.6	41.5	42.2	41.9	42.1	41.7	42.7	44.7	47.2	49.5	49.8	47.6	46.2	45.9	45.8	45.5	45.5	45.3	45.6	44.4	40.7	44.4											
14 q	41.8	44.7	42.7	42.3	42.8	42.7	42.8	42.1	42.0	42.8	45.0	47.5	48.8	48.2	46.6	45.8	45.3	44.6	44.4	43.7	41.1	44.6	44.0	43.7	44.2											
15 q	43.2	43.6	43.3	43.2	43.8	43.8	43.6	42.9	42.2	42.5	44.6	47.7	49.0	49.6	48.1	46.6	45.9	45.6	45.2	45.5	44.9	44.3	44.5	44.1	44.9											
16 q	43.9	43.2	44.6	44.8	44.3	44.2	43.5	43.3	43.1	43.4	45.6	48.0	49.9	49.2	48.7	46.6	45.6	45.6	46.5	45.5	45.8	40.2	39.3	43.1	44.9											
17	43.3	43.7	43.6	43.7	44.9	45.1	44.0	45.4	48.6	46.4	46.7	49.7	52.8	52.6	49.2	48.0	47.0	46.2	45.5	43.5	39.3	42.1	40.8	43.2	45.6											
18 q	43.7	43.2	43.3	44.7	44.1	43.7	43.0	42.5	42.3	43.6	46.1	48.7	49.4	49.5	47.7	46.2	46.6	44.4	44.6	45.5	45.0	43.5	41.4	46.6	45.0											
19	43.7	43.8	41.2	43.7	43.9	43.7	43.0	43.1	44.7	45.7	46.8	48.7	49.0	50.3	51.7	47.9	46.6	46.7	46.0	45.1	45.2	44.5	44.3	43.9	45.5											
20	43.8	43.7	43.6	42.6	43.5	43.7	43.3	42.7	42.3	43.1	44.5	47.6	47.9	47.6	47.6	48.8	47.8	44.4	28.5	41.9	43.0	44.5	47.7	40.7	43.9											
21	44.7	40.5	32.6	40.7	41.6	41.3	41.9	43.6	43.3	44.5	45.8	47.6	48.0	46.8	45.8	44.8	44.5	44.3	44.6	44.7	44.4	43.8	44.1	44.1	43.7											
22	43.7	44.7	42.6	41.9	41.6	42.0	42.2	47.1	45.7	45.6	47.7	48.8	51.4	52.6	52.0	50.8	34.7	38.2	37.6	43.4	43.6	30.0	36.5	45.6	43.7											
23	47.6	35.7	38.9	41.8	43.7	41.8	42.5	42.7	42.5	44.2	46.8	48.6	49.9	48.7	46.7	46.1	45.6	44.4	44.6	43.6	41.4	35.6	40.7	39.8	43.5											
24	38.3	38.5	29.9	39.5	39.8	41.5	44.1	45.5	46.0	44.4	53.6	54.7	56.5	58.6	47.1	48.5	41.3	33.8	43.7	39.2	44.9	41.7	37.5	36.7	43.6											
25	37.8	50.1	38.2	34.6	42.0	43.7	45.7	56.6	55.6	54.6	49.3	49.6	45.6	45.7	46.1	46.8	44.9	38.6	29.6	30.9	33.6	31.2	41.2	41.3	43.1											
26 d	45.0	53.8	30.0	35.3	50.4	62.7	61.7	53.8	53.9	58.5	52.1	46.9	52.4	55.3	45.7	51.4	44.8	28.5	33.0	36.1	41.7	43.5	41.3	50.9	47.0											
27	44.6	46.5	49.5	43.5	41.7	44.7	47.8	52.4	53.2	49.8	47.4	47.0	47.3	46.9	46.5	45.6	44.1	40.9	22.7	34.7	29.0	16.8	38.8	41.8	42.6											
28	27.9	37.0	35.6	45.7	37.0	53.8	45.5	47.4	45.7	44.5	44.4	47.4	46.4	45.4	47.9	34.9	43.8	27.5	27.6	36.5	41.7	48.1	42.3	42.8	41.5											
29	43.2	54.7	43.6	44.2	42.7	46.0	49.4	47.1	46.7	45.9	47.8	50.7	47.6	52.8	41.7	44.5	34.4	39.3	24.3	29.9	38.2	44.3	48.8	42.8	43.8											
30	43.4	43.5	55.4	44.5	41.8	45.7	46.5	45.8	44.6	46.8	47.9	48.6	44.8	48.4	47.9	46.7	43.7	40.5	37.8	33.4	34.9	35.6	43.9	40.8	43.9											
31	36.7	44.5	43.7	43.3	40.9	42.9	46.6	45.8	46.5	45.2	48.1	47.7	47.4	46.8	46.8	46.1	39.9	35.8	31.6	36.5	40.5	38.4	48.5	41.7	43.0											
Mean	42.1	43.2	41.6	42.3	42.9	44.8	45.4	45.5	45.7	45.6	46.8	48.6	49.6	49.8	47.5	47.3	42.9	42.0	40.2	40.9	41.0	40.3	41.8	42.8	44.2											

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

33

42 LERWICK (V)

46,000γ (0.46 C.G.S. unit) +

OCTOBER 1943

	Hour G.M.T.																								Mean
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
1 d	787	774	833	870	842	866	906	929	935	942	954	950	960	985	1050	1032	1031	1007	977	944	899	896	887	764	917
2 d	716	680	769	874	906	907	922	920	927	938	951	948	947	988	1008	1016	1022	1031	966	943	906	902	886	817	912
3 d	764	763	784	849	886	890	908	933	946	954	998	959	944	966	1003	1002	1024	1001	989	933	903	851	788	768	909
4	762	777	781	849	903	921	931	930	932	943	951	949	952	983	979	980	996	970	956	951	944	928	903	902	920
5	896	857	861	892	913	925	935	940	942	940	938	933	932	931	934	937	941	942	951	945	929	933	931	917	925
6 q	897	901	910	920	927	931	936	939	942	941	941	937	933	934	937	940	941	942	941	939	937	937	936	934	932
7	928	906	885	912	922	925	928	931	932	932	929	930	925	933	950	955	953	966	995	993	975	956	887	904	935
8	821	861	905	918	929	935	936	940	939	938	934	948	955	950	940	946	990	1004	994	1006	972	933	900	864	936
9 d	826	831	872	897	844	871	902	924	904	918	938	965	963	963	962	965	968	957	970	960	830	867	883	891	911
10	895	904	919	923	924	928	922	928	941	942	941	941	940	956	979	985	1011	980	954	942	942	939	935	934	942
11	934	935	934	937	936	936	936	936	938	943	944	947	955	945	941	940	938	939	941	949	911	890	923	914	935
12	894	899	899	912	901	904	917	928	927	932	935	934	935	938	941	940	945	954	948	920	903	925	900	876	921
13	899	922	925	908	918	925	927	928	930	931	930	930	930	938	942	940	942	938	936	933	934	927	925	929	929
14 q	928	923	929	936	936	936	933	932	931	929	928	927	924	925	929	934	936	938	940	939	931	924	928	931	931
15 q	934	936	936	936	936	933	932	931	931	931	926	919	918	923	928	933	936	936	934	933	933	930	931	930	931
16 q	927	929	931	932	932	932	932	930	928	928	924	921	920	923	932	940	941	940	937	937	934	924	911	922	929
17	925	928	929	929	930	922	924	928	923	922	921	925	934	932	935	942	946	943	947	951	955	935	905	923	931
18 q	929	931	931	931	932	933	934	936	934	932	927	925	924	923	928	933	935	946	961	949	942	939	924	911	933
19	895	893	914	918	912	918	922	928	931	933	934	928	933	932	934	929	931	932	933	934	933	936	934	933	926
20	932	931	929	927	928	928	930	932	933	931	930	925	923	923	930	940	950	973	990	964	941	933	880	900	933
21	852	823	865	901	915	923	930	931	933	934	933	931	930	930	930	932	932	931	932	932	933	934	934	933	919
22	933	932	922	925	927	925	924	918	920	924	926	940	950	953	955	982	1019	1018	956	942	938	934	918	903	941
23	785	800	824	858	877	900	913	922	930	931	931	932	935	939	953	943	934	932	932	935	944	939	929	894	909
24	886	861	868	877	893	904	911	915	921	937	960	945	965	974	1058	1019	1033	1014	971	956	831	796	821	821	922
25	781	721	741	780	844	897	913	919	927	923	935	959	993	986	967	965	960	980	970	933	870	876	897	889	901
26 d	848	774	822	826	798	783	815	850	908	926	954	997	988	1051	1066	1018	1001	970	948	936	854	854	870	818	903
27	837	849	868	888	872	892	907	923	919	923	944	953	953	954	954	956	967	965	965	933	902	823	825	738	905
28	752	720	716	722	764	821	870	909	921	940	950	952	965	975	996	1053	999	980	941	934	883	816	833	840	885
29	861	768	770	853	897	913	913	921	932	944	936	959	994	980	1008	1018	1025	1012	985	896	909	867	802	862	918
30	901	906	817	828	892	901	917	923	928	930	943	978	1046	972	958	958	959	996	1002	941	861	885	859	885	924
31	899	895	902	920	927	930	927	933	950	936	944	952	982	1029	1008	967	970	967	965	924	909	895	807	886	934
Mean	865	860	867	889	899	908	918	925	930	934	940	943	950	956	966	966	970	968	959	943	916	904	890	882	923

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, +1γ.

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

43 LERWICK

OCTOBER 1943

	TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.
	Horizontal force				Declination			Vertical force								
	Maximum 14,000γ +	Minimum 14,000 γ +	Range		Maximum 11° +	Minimum 11° +	Range	Maximum 46,000γ +	Minimum 46,000γ +	Range						
	h. m. γ	γ h. m.	γ		h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ						
1 d	19 58 458	103 0 57	355		23 23 64.2	8.7 19 55	55.5	14 45 1072	707 23 49	365		6, 4, 3, 3, 4, 4, 5, 6	35	2	81.5	
2 d	16 10 494	126 1 30	368		23 41 68.6	0.5 18 20	68.1	16 2 1092	629 1 37	463		6, 3, 3, 3, 3, 5, 5, 5	33	1	81.8	
3 d	16 36 510	157 23 56	353		12 56 56.1	8.9 16 40	47.2	16 36 1097	729 1 49	368		5, 4, 3, 3, 4, 5, 4, 6	34	1	81.5	
4	16 55 411	161 0 7	250		2 22 56.0	30.2 16 45	25.8	16 35 1001	749 0 36	252		5, 4, 2, 3, 3, 4, 2, 3	26	1	81.1	
5	19 44 421	321 1 29	100		1 26 54.5	28.2 19 30	26.3	19 5 957	838 1 45	119		3, 2, 1, 1, 2, 1, 3, 2	15	0	80.8	
6 q	23 1 396	349 10 45	47		12 25 52.3	39.2 3 11	13.1	17 0 943	891 1 3	52		2, 2, 2, 1, 1, 1, 0, 0	9	0	80.7	
7	14 5 414	305 22 53	109		14 25 61.2	16.9 22 55	44.3	18 54 1018	852 22 46	166		3, 2, 0, 2, 4, 3, 3, 4	21	1	81.0	
8	19 38 432	232 23 28	200		12 45 56.7	17.0 23 14	39.7	17 5 1048	780 0 34	268		4, 2, 2, 3, 4, 4, 4, 5	28	1	81.0	
9 d	16 56 494	240 8 6	254		8 6 64.8	10.0 16 50	54.8	16 43 996	759 20 46	237		4, 4, 4, 3, 3, 5, 5, 4	32	1	81.2	
10	16 46 439	352 11 2	87		13 21 53.6	0.4 16 36	53.2	16 33 1054	891 0 14	163		3, 2, 2, 2, 3, 5, 2, 2	21	1	82.0	
11	21 8 419	338 12 10	81		23 46 50.6	29.0 20 10	21.6	12 48 960	874 21 12	86		2, 1, 2, 2, 2, 2, 3, 4	16	1	82.6	
12	19 45 438	343 23 4	95		22 23 51.6	33.7 19 3	17.9	17 12 956	872 23 24	84		3, 3, 2, 2, 1, 2, 3, 3	19	1	83.0	
13	0 0 397	355 11 37	42		12 48 51.3	39.0 23 25	12.3	21 1 941	880 0 0	61		2, 2, 1, 0, 2, 1, 0, 2	10	0	82.8	
14 q	21 35 406	363 10 30	43		12 6 50.7	34.8 20 17	15.9	19 7 948	919 1 48	29		2, 0, 0, 2, 1, 0, 3, 1	9	0	82.5	
15 q	21 20 396	363 10 44	33		12 57 51.0	41.7 8 38	9.3	16 55 937	916 11 53	21		0, 0, 0, 1, 1, 1, 1, 0	4	0	82.7	
16 q	22 11 432	364 10 55	68		12 37 50.6	36.2 22 11	14.4	16 6 943	903 22 20	40		1, 1, 0, 1, 2, 1, 0, 3	9	0	83.0	
17	21 42 426	349 12 12	77		13 9 56.1	35.7 20 22	20.4	20 30 959	891 22 6	68		0, 1, 2, 2, 2, 1, 3, 3	14	0	83.0	
18 q	22 30 409	360 10 52	49		23 46 54.5	36.8 17 52	17.7	18 20 966	878 24 0	88		0, 0, 0, 1, 1, 3, 3, 3	11	0	82.9	
19	17 20 402	351 10 3	51		14 27 53.1	38.6 0 29	14.5	14 4 937	877 0 4	60		3, 2, 2, 2, 2, 1, 1, 0	13	0	82.6	
20	18 6 658	355 19 6	303		15 41 51.2	16.3 18 41	34.9	18 6 1145	868 22 16	277		0, 1, 0, 1, 1, 3, 6, 3	15	1	82.6	
21	2 10 396	347 0 31	49		0 37 49.6	26.4 2 8	23.2	21 30 937	805 1 1	132		4, 2, 2, 1, 1, 1, 0, 0	11	0	83.0	
22	15 57 419	329 11 51	90		15 34 55.1	18.8 21 41	36.3	16 1 1054	857 24 0	197		2, 1, 2, 3, 3, 5, 4, 4	24	1	83.0	
23	6 4 388	282 1 2	106		0 8 56.1	31.3 1 22	24.8	14 36 958	742 0 42	216		4, 3, 2, 0, 2, 0, 1, 3	15	0	83.0	
24	14 25 478	153 20 39	325		13 59 64.4	19.1 20 40	45.3	14 21 1101	727 20 57	374		3, 2, 2, 4, 5, 5, 6, 5	32	1	82.8	
25	19 38 447	66 1 39	381		1 24 62.3	5.1 19 35	57.2	12 54 1019	680 1 31	339		6, 5, 3, 4, 4, 4, 5, 4	35	2	82.1	
26 d	14 1 581	202 6 32	379		6 33 69.4	20.9 2 41	48.5	14 3 1144	755 1 18	389		5, 5, 5, 4, 5, 5, 5, 4	38	1	82.0	
27	18 41 431	201 23 26	230		8 17 57.1	0.4 21 3	56.7	18 23 986	712 23 35	274		3, 4, 3, 3, 2, 3, 5, 4	27	1	82.0	
28	15 11 505	146 1 36	359		5 24 58.2	8.2 18 0	50.0	15 11 1101	666 2 38	435		5, 5, 3, 3, 3, 5, 5, 4	33	1	82.4	
29	18 51 472	155 1 26	317		1 28 59.8	-1.1 18 48	60.9	18 32 1043	724 1 37	319		5, 4, 3, 3, 4, 4, 5, 4	32	1	83.0	
30	12 16 483	266 2 20	217		2 50 62.5	17.2 19 42	45.3	12 11 1074	782 3 11	292		4, 4, 3, 4, 4, 3, 5, 4	31	1	83.3	
31	13 47 437	288 22 16	149		22 11 53.7	24.1 18 38	29.6	13 59 1064	770 22 16	294		3, 2, 2, 2, 4, 4, 4, 4	25	1	83.3	
Mean	- - 463	277 - -	186		- - 56.7	21.7 - -	35.0	- - 1015	804 - -	211		2.7	21.8	0.71	82.3	

Corrections to be applied to all values: H, -6γ ; D, $-4.2'$; V, nil.

MAGNETIC DECLINATION (WEST)

Mean values for periods of sixty minutes ending at exact hours, G.M.T.

45	LERWICK (D)												11° +											NOVEMBER 1943												
	Hour G.M.T.																																			
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
1	43.7	43.5	44.8	60.3	54.7	47.3	42.3	43.9	43.2	46.2	44.9	48.8	51.6	38.9	46.9	47.0	40.9	35.5	37.5	40.0	36.8	36.5	40.9	39.5	44.0											
2	46.2	46.9	43.3	42.9	43.2	42.8	43.3	42.9	42.7	43.2	44.5	46.4	47.0	47.2	46.5	45.6	42.0	42.6	41.1	42.1	42.5	42.7	43.2	42.9	43.9											
3	43.1	43.0	43.1	43.2	42.7	42.5	43.0	43.0	42.7	42.5	43.9	46.0	46.4	46.6	46.0	44.6	44.7	44.0	43.7	41.5	41.4	40.0	38.5	38.7	43.1											
4	42.7	42.9	43.6	42.4	42.8	42.9	42.5	42.2	41.8	42.0	43.3	45.6	47.5	48.8	47.6	47.8	45.8	46.1	45.4	44.3	43.8	43.6	37.5	35.0	43.7											
5	41.5	43.7	42.8	41.6	42.7	38.6	40.0	41.2	41.7	44.4	45.5	46.6	50.1	50.4	54.5	51.9	48.1	48.1	47.4	45.9	43.1	39.8	38.7	40.7	44.5											
6	41.9	41.9	42.6	47.4	40.9	39.9	40.7	42.1	42.0	42.5	44.4	45.3	48.2	50.0	50.5	51.8	35.7	10.6	35.9	40.5	37.9	37.7	48.4	41.0	41.7											
7	40.7	45.8	42.7	40.9	42.2	42.3	42.1	43.9	41.3	41.0	43.9	46.3	47.8	47.2	46.6	46.5	46.6	47.1	46.3	45.7	28.2	35.3	41.6	44.3	43.2											
8	46.1	44.7	43.4	40.9	42.9	41.8	43.3	44.6	44.8	41.7	43.7	46.9	46.6	46.5	46.7	45.2	46.0	45.9	42.3	43.9	38.7	35.8	39.6	38.1	43.3											
9	42.8	42.6	45.9	40.6	41.0	42.0	42.6	43.2	43.6	43.5	44.7	45.7	47.3	46.1	44.7	44.6	44.9	42.7	45.2	43.3	42.4	41.7	39.9	43.6	43.5											
10	40.6	39.5	43.1	41.8	41.5	41.8	41.7	42.2	42.4	43.5	44.6	46.0	46.4	46.2	45.6	44.7	44.9	44.6	45.0	27.6	25.4	38.7	42.4	41.5	41.7											
11 q	43.8	43.6	42.9	42.5	41.7	41.8	41.5	41.9	42.1	42.8	43.8	45.2	46.0	45.5	43.8	43.1	43.2	43.2	42.7	41.7	42.0	43.1	43.2	43.7	43.1											
12	43.4	42.7	43.6	42.9	42.5	43.6	43.6	43.5	43.6	44.7	46.4	48.3	49.7	51.4	47.7	45.8	44.5	43.7	43.8	41.9	43.6	41.7	42.1	42.9	44.6											
13 q	43.2	43.4	43.6	43.7	43.7	43.7	43.6	43.1	42.8	43.7	45.0	46.9	47.7	47.4	46.9	45.9	45.7	46.5	44.8	41.1	38.2	35.3	36.0	40.6	43.4											
14 q	43.3	43.4	43.7	43.6	41.7	43.8	42.9	42.0	42.4	44.5	44.9	45.9	46.6	46.5	45.7	45.3	45.2	44.6	42.6	39.4	39.6	41.1	43.2	42.8	43.5											
15 q	43.7	43.2	42.8	42.9	42.9	43.1	43.4	43.5	43.8	44.5	45.5	46.8	47.2	46.3	45.9	45.7	46.8	47.1	46.6	45.6	44.4	43.7	43.0	42.8	44.6											
16	42.5	41.8	46.8	48.3	41.6	43.7	42.1	42.9	42.7	43.6	44.8	46.1	48.2	49.8	50.4	49.1	47.5	45.8	43.8	37.8	37.6	31.0	38.8	40.7	43.6											
17 q	44.8	44.7	44.0	43.2	43.4	43.3	42.9	42.7	42.6	43.7	43.9	45.1	46.0	46.1	45.8	45.0	44.6	44.3	43.6	43.8	43.7	42.9	42.9	42.3	44.0											
18	42.0	42.6	43.8	43.6	43.9	43.7	43.9	43.5	43.1	43.7	44.8	45.5	46.5	46.8	45.0	45.4	47.1	44.0	43.2	41.8	41.2	42.2	42.5	43.7	43.9											
19 d	43.8	43.9	44.1	47.7	48.9	49.9	45.2	45.7	45.7	55.4	49.9	49.3	45.1	46.2	49.6	36.7	47.0	38.7	30.5	21.8	36.1	41.5	37.4	37.3	43.2											
20 d	41.1	37.3	49.2	45.8	44.5	50.6	50.9	54.6	52.8	49.7	45.8	46.7	45.6	45.6	44.0	44.4	14.7	41.2	44.7	36.8	13.5	35.8	40.8	44.4	42.5											
21	40.8	41.4	36.5	40.3	38.1	51.7	51.5	53.0	52.3	46.5	47.3	46.8	44.9	44.0	41.7	44.8	35.4	33.6	33.3	25.1	37.7	38.8	38.5	45.1	42.0											
22	43.8	46.9	44.5	47.5	46.9	51.1	50.2	50.0	47.2	44.2	44.7	46.3	46.9	41.5	44.6	44.3	21.6	32.1	39.7	36.0	39.4	39.6	42.8	47.9	43.3											
23	44.4	44.8	46.1	46.4	44.7	44.7	47.6	48.4	48.6	45.7	43.9	45.6	45.3	41.6	48.7	36.0	38.5	38.1	34.0	32.2	35.0	29.2	23.0	31.8	41.0											
24	40.1	50.6	47.8	40.8	45.5	46.7	45.9	46.6	44.6	42.0	44.1	44.7	49.5	47.3	29.9	44.7	46.5	41.4	12.2	26.0	39.8	39.9	33.8	42.5	41.4											
25 d	37.0	41.5	45.5	41.8	43.6	46.6	49.7	46.6	46.1	44.8	44.6	48.7	42.9	50.8	37.9	34.6	41.7	22.9	31.9	21.1	21.8	25.2	38.1	43.5	39.5											
26 d	42.0	42.1	42.0	42.7	49.3	51.8	46.8	47.7	44.8	42.9	45.5	46.4	47.4	47.5	39.6	51.9	45.3	35.0	36.4	40.9	50.1	31.1	33.1	46.0	43.7											
27 d	44.4	32.8	32.3	45.3	48.6	51.5	55.1	57.2	50.9	45.7	44.9	45.8	45.6	44.8	40.7	40.1	45.0	43.9	43.5	41.0	44.9	34.0	40.1	41.1	44.1											
28	33.8	38.2	43.1	44.7	47.4	50.3	50.6	46.7	48.0	46.5	49.7	45.6	46.0	45.7	44.6	43.6	44.1	42.1	20.4	36.6	39.5	41.6	42.8	47.5	43.3											
29	40.0	44.9	53.8	52.6	51.3	55.4	52.9	52.8	46.7	45.7	46.5	46.1	45.9	44.8	47.7	39.7	43.0	41.6	29.9	39.5	35.2	38.7	39.3	41.2	44.8											
30	43.2	44.8	43.9	41.7	42.3	43.7	44.4	46.1	46.9	47.6	47.2	47.2	47.7	47.3	47.8	47.6	39.6	44.5	43.3	42.7	42.3	41.3	40.8	41.9	44.4											
Mean	42.3	43.0	43.8	44.3	44.3	45.4	45.2	45.6	44.8	44.6	45.2	46.4	47.0	46.5	45.5	44.8	42.2	40.7	39.4	38.2	38.2	38.3	39.8	41.8	43.2											

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

35

46	LERWICK (V)												46,000γ (0.46 C.G.S. unit) +												NOVEMBER												1943
	Hour G.M.T.																																				
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean												
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ												
1	919	925	917	801	756	808	877	909	922	956	981	988	975	1026	1020	991	995	994	950	930	939	933	917	916	931												
2	913	902	916	931	935	937	937	939	942	944	941	937	936	937	940	945	952	953	957	956	947	941	938	936	938												
3	934	934	935	936	936	937	938	937	939	939	937	936	931	933	937	941	943	944	945	948	945	938	920	917	937												
4	921	925	929	931	932	932	933	936	936	936	932	932	931	930	934	936	937	939	939	940	940	941	943	943	935												
5	936	932	933	934	924	913	919	924	928	926	928	928	927	928	941	948	946	944	949	953	964	952	949	941	936												
6	938	936	930	919	906	917	919	925	929	932	933	935	937	938	955	966	1017	1043	994	966	901	928	844	833	935												
7	856	865	876	911	923	929	931	929	940	947	942	941	940	938	936	934	934	939	944	947	960	938	936	924	927												
8	903	894	916	924	927	924	928	922	929	941	936	936	936	937	940	944	941	942	944	943	943	938	920	929	931												
9	920	925	897	904	920	921	925	928	928	934	937	937	937	941	942	946	942	945	941	943	943	939	934	910	931												
10	917	929	934	928	932	933	932	932	933	935	938	940	941	942	944	945	940	938	936	956	928	928	916	919	934												
11 q	928	935	939	939	939	934	932	932	934	936	937	939	939	939	941	941	939	938	936	934	930	931	931	931	936												
12	935	936	936	934	933	931	928	928	928	927	928	933	938	936	939	941	942	941	939	942	938	941	940	936	935												
13 q	936	937	939	938	937	936	934	932	931	931	930	932	933	937	938	941	941	944	946	947	943	934	932	924	936												
14 q	923	927	930	934	937	932	931	931	930	928	931	932	933	933	935	938	942	943	947	944	941	938	932	931	934												
15 q	931	932	933	934	933	933	931	930	929	928	929	928	930	929	930	932	936	938	938	942	940	939	933	929	933												
16	929	931	923	896	896	912	920	922	925	923	925	925	925	928	938	943	947	949	948	960	958	936	923	923	929												
17 q	923	926	930	932	934	934	933	934	933	931	931	930	928	928	930	934	936	936	937	936	936	934	933	931	932												
18	927	924	927	928	930	931	931	929	930	931	932	933	931	934	938	933	939	953	972	967	959	949	939	932	937												
19 d	932	932	929	928	911	890	908	922	951	968	957	970	1057	985	969	995	978	986	988	954	942	944	912	805	946												
20 d	861	863	843	820	846	853	877	903	925	943	967	976	970	980	975	987	996	954	944	950	954	936	935	912	924												
21	817	825	880	892	898	888	894	927	932	943	964	975	993	1024	1024	1000	1029	993	999	965	906	918	905	858	935												
22	872	887	885	885	897	884	896	911	926	937	940	940	949	971	977	963	1002	975	958	933	924	925	919	878	926												
23	860	895	905	908	911	909	919	922	929	939	955	956	975	995	1002	1025	1023	967	983	912	877	742	698	855	919												
24	859	773	806	854	887	913	925	936	948	962	957	956	963	991	1043	1001	964	971	964	961	927	871	874	866	924												
25 d	890	890	853	891	899	908	904	922	941	950	976	984	1002	984	1003	1033	1033	977	1000	885	870	870	873	831	932												
26 d	876	925	934	934	911	891	900	918	937	941	942	948	956	975	1070	1116	1041	1003	968	962	892	811	869	749	936												
27 d	687	786	823	754	684	787	847	859	904	946	961	970	997	989	988	976	960	954	953	975	927	933	909	804	891												
28	849	888	911	926	902	887	896	919	939	940	948	933	935	940	947	947	946	954	964	955	944	938	916	875	925												
29	868	895	880	865	887	903	913	920	941	951	955	960	965	984	980	983	981	989	991	954	908	934	932	934	936												
30	933	930	918	923	927	930	936	937	936	938	940	941	948	962	968	978	990	967	959	950	947	944	941	939	945												
Mean	896	903	907	904	903	908	916	924	933	936	944	946	952	956	964	967	967	960	958	947	932	921	912	897	932												

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, nil.

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

47 LERWICK													NOVEMBER 1943							
	TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.				
	Horizontal force				Declination				Vertical force											
	Maximum 14,000γ +	Minimum 14,000γ +	Range		Maximum 11° +	Minimum 11° +	Range		Maximum 46,000γ +	Minimum 46,000γ +	Range									
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ						
1	18 26	454	267	3 18	187	3 47	70.0	14.9	18 22	55.1	14 0	1041	733	4 12	308	4, 4, 4, 3, 4, 4, 5, 2	30	1	83.1	
2	17 19	391	353	0 57	38	1 4	49.0	35.7	17 2	13.3	19 2	960	895	1 41	65	2, 1, 2, 2, 0, 3, 2, 1	13	0	83.0	
3	22 40	425	365	10 30	60	13 52	47.2	35.0	22 39	12.2	19 31	949	902	22 46	47	0, 0, 0, 1, 0, 0, 2, 3	6	0	82.9	
4	5 27	401	373	10 21	28	13 19	50.3	32.8	23 19	17.5	23 14	949	921	0 49	28	1, 0, 0, 1, 1, 1, 0, 3	7	0	82.8	
5	6 3	416	360	14 58	56	14 40	57.3	34.7	5 34	22.6	20 43	969	907	5 25	62	2, 3, 2, 2, 3, 2, 2, 2	18	1	82.9	
6	17 23	688	294	20 17	394	22 42	64.5	-24.1	17 45	88.6	17 21	1139	787	22 48	352	1, 3, 2, 1, 3, 6, 5, 5	26	1	82.7	
7	20 41	425	317	1 48	108	1 30	49.5	16.9	20 26	32.6	20 24	990	843	0 42	147	3, 2, 3, 2, 1, 1, 4, 3	19	1	81.8	
8	16 35	398	350	0 52	48	11 13	48.7	30.7	21 23	18.0	18 10	950	886	0 56	64	2, 2, 2, 2, 2, 2, 3, 3	18	1	80.1	
9	23 7	414	353	2 49	61	2 39	48.7	36.8	19 55	11.9	15 36	947	893	2 37	54	3, 2, 2, 1, 1, 2, 2, 3	16	0	79.0	
10	20 4	427	348	21 0	79	12 5	48.5	17.5	19 33	31.0	19 29	974	906	0 10	68	2, 1, 1, 1, 1, 1, 4, 3	14	1	79.4	
11 q	20 39	398	369	11 34	29	12 46	46.4	39.2	19 27	7.2	14 40	943	924	0 0	19	1, 1, 1, 0, 1, 0, 1, 0	5	0	80.2	
12	7 11	398	365	12 0	33	13 29	52.7	39.6	19 19	13.1	19 31	945	925	9 19	20	0, 0, 0, 1, 2, 1, 2, 1	7	0	80.0	
13 q	21 55	401	371	10 45	30	12 33	48.5	32.2	22 21	16.3	19 58	951	920	23 19	31	0, 0, 0, 1, 1, 1, 3, 2	8	0	79.1	
14 q	15 7	395	375	19 6	20	13 18	46.9	34.8	19 11	12.1	18 8	953	923	0 36	30	1, 1, 1, 0, 0, 2, 3, 2	10	0	78.4	
15 q	18 40	405	382	10 7	23	12 5	47.8	41.8	22 55	6.0	20 58	942	927	23 55	15	1, 0, 0, 0, 0, 1, 1, 1, 1	4	0	78.0	
16	4 48	423	363	19 58	60	14 8	53.0	25.0	21 39	28.0	19 46	976	881	4 6	95	2, 3, 1, 1, 2, 2, 3, 3	17	1	77.5	
17 q	21 34	395	375	0 6	20	12 57	46.8	40.9	23 55	5.9	18 27	938	921	0 40	17	1, 0, 1, 0, 0, 0, 0, 0	2	0	76.8	
18	7 54	405	360	17 45	45	5 58	45.7	39.8	19 40	5.9	18 5	976	922	1 26	54	1, 1, 1, 1, 2, 3, 2, 1	12	0	76.2	
19 d	12 16	450	199	23 4	251	9 30	58.0	-0.1	23 12	58.1	12 15	1088	751	23 28	337	0, 3, 4, 4, 4, 4, 4, 6	29	1	75.9	
20 d	16 27	418	258	2 10	160	7 20	57.2	-1.5	16 18	58.7	16 0	1028	806	3 8	222	4, 4, 4, 4, 3, 5, 4, 4	32	1	77.8	
21	16 29	573	314	1 35	259	5 39	55.8	9.3	16 35	46.5	16 28	1113	781	0 51	332	4, 4, 3, 3, 4, 5, 4, 4	31	1	78.0	
22	19 54	435	318	5 7	117	7 4	54.5	4.2	16 43	50.3	16 39	1022	846	0 0	176	3, 3, 3, 2, 3, 5, 4, 4	27	1	78.5	
23	20 34	678	-162	21 43	840	20 4	65.5	-23.8	22 5	89.1	16 45	1071	563	21 58	508	3, 3, 2, 3, 3, 5, 7, 7	33	2	78.0	
24	18 21	445	128	1 29	317	1 50	56.4	-3.8	18 18	60.2	14 20	1065	720	1 27	345	6, 3, 3, 3, 4, 4, 5, 4	32	1	77.2	
25 d	18 43	546	177	23 26	369	22 30	61.5	-3.0	19 0	64.5	16 51	1087	801	22 30	296	3, 3, 3, 3, 4, 5, 6, 6	33	1	77.0	
26 d	15 14	496	42	23 59	454	20 40	80.2	20.0	17 49	60.2	15 14	1161	575	23 57	586	4, 3, 3, 3, 5, 5, 6, 6	35	2	76.3	
27 d	20 26	416	59	0 0	357	6 51	63.2	25.7	21 3	37.5	12 52	1026	581	0 2	445	6, 5, 4, 3, 3, 2, 5, 5	33	1	76.0	
28	18 42	422	300	10 44	122	10 36	55.2	10.4	18 34	44.8	18 9	974	810	0 0	164	4, 3, 3, 4, 1, 1, 4, 3	23	1	75.9	
29	19 47	422	319	13 13	103	2 50	59.2	20.4	18 14	38.8	18 10	1015	859	0 27	156	4, 3, 3, 2, 3, 3, 4, 2	24	1	76.1	
30	2 13	391	349	16 0	42	15 11	49.7	35.8	16 24	13.9	16 16	997	913	2 22	84	2, 1, 1, 1, 2, 3, 1, 1	12	0	76.0	
Mean	- -	445	288	- -	157	- -	54.6	20.6	- -	34.0	- -	1005	834	- -	171	2.3		19.2	0.67	78.9

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

48	LERWICK (H)												14,000γ (0.14 C.G.S. unit) +												DECEMBER 1943											
	Hour G.M.T.																																			
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ											
1	380	381	381	382	384	385	383	383	384	380	380	384	386	389	386	384	388	380	384	388	390	386	387	388	384											
2	383	380	379	378	382	390	390	392	391	390	389	387	388	392	396	404	367	382	389	421	367	377	361	378	386											
3 d	374	367	366	371	365	366	378	390	385	379	378	376	378	375	377	382	400	364	378	394	376	377	379	351	376											
4	370	370	361	383	378	384	383	379	378	382	381	377	387	361	369	367	378	382	392	370	368	373	389	377	377											
5	364	366	368	363	347	372	386	388	379	386	385	380	369	378	358	376	377	379	384	384	385	389	377	380	376											
6 q	381	377	378	378	380	381	381	381	380	380	380	380	378	378	378	381	382	386	388	388	386	383	380	378	381											
7	375	380	385	386	390	389	388	387	384	381	382	381	379	378	380	383	385	389	389	388	389	385	384	383	384											
8	386	384	386	386	386	388	393	394	391	389	388	388	386	386	382	378	370	372	374	380	384	382	381	381	384											
9	380	382	381	392	398	410	407	398	388	386	388	386	382	381	379	365	370	375	385	382	380	374	380	372	384											
10	391	377	383	386	394	394	398	392	393	394	390	386	375	381	378	370	365	377	382	386	386	385	381	380	384											
11 q	381	380	381	383	386	388	390	390	392	389	390	393	393	392	386	385	385	384	385	386	389	386	385	384	387											
12 q	383	386	386	387	390	393	393	394	392	389	388	386	386	386	384	385	385	382	386	386	387	383	381	390	387											
13 q	378	377	376	387	393	393	396	396	395	391	390	389	389	388	389	386	386	387	385	383	378	384	388	386	387											
14	386	387	386	389	391	395	398	401	398	398	393	390	388	386	380	383	378	380	382	381	379	377	376	372	386											
15	372	377	376	377	380	384	385	385	381	384	383	383	386	389	388	386	386	382	383	379	372	358	363	351	379											
16 d	372	373	376	385	393	390	402	403	372	304	333	376	369	376	438	386	359	382	390	362	369	339	333	350	372											
17 d	340	323	367	357	304	370	391	382	383	374	337	324	346	351	376	374	375	381	374	383	373	373	338	329	359											
18	374	367	340	360	380	378	376	375	376	373	382	377	370	380	345	368	364	372	371	408	385	376	374	373	373											
19 d	368	369	394	373	381	384	387	362	365	365	361	368	359	369	373	380	369	376	372	358	374	359	391	357	371											
20 d	267	330	363	372	368	375	383	367	368	375	356	369	365	364	367	359	390	376	365	393	370	363	365	394	365											
21	328	370	377	378	376	380	380	383	380	381	386	382	369	380	382	380	383	382	378	379	385	355	338	308	372											
22	349	342	361	375	371	383	386	385	385	382	359	372	372	374	373	373	376	368	370	389	382	382	359	382	373											
23	376	373	374	369	376	386	385	382	378	366	369	369	370	372	380	378	381	381	378	382	372	376	381	382	377											
24	374	365	369	363	374	384	381	382	378	381	380	377	377	376	374	380	380	384	381	372	378	380	381	381	377											
25	378	381	377	381	365	391	399	391	389	375	364	370	380	379	382	384	385	382	378	380	393	378	371	370	380											
26	365	386	372	375	380	386	389	385	390	384	373	364	364	364	370	381	382	366	369	382	367	364	372	373	375											
27	373	372	372	372	377	385	385	383	377	372	372	364	368	377	382	384	384	385	378	383	380	381	376	382	378											
28 q	376	378	379	382	385	387	389	396	392	386	380	379	380	384	384	384	386	388	389	388	385	383	380	379	384											
29	377	378	378	380	384	389	387	389	381	365	372	378	380	381	383	386	378	375	382	372	369	378	372	376	379											
30	376	378	378	381	385	387	390	389	386	384	384	384	386	389	373	378	381	382	388	389	388	389	384	382	384											
31	381	380	381	380	383	386	389	390	384	364	371	380	374	378	376	369	366	368	385	392	391	370	385	347	378											
Mean	370	372	375	378	378	386	389	387	384	378	377	377	377	379	380	379	379	379	381	384	380	376	374	371	379											

355 at 0-1h. January 1, 1944.

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, -1γ.

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

49 LERWICK (D)													11° +													DECEMBER 1943					
	Hour G.M.T.																														
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean						
1	42.9	43.0	43.1	43.3	43.6	43.3	43.7	43.3	43.8	44.5	44.8	44.8	45.7	46.1	45.4	45.4	49.9	49.6	39.7	45.7	45.5	37.6	40.7	43.2	44.1						
2	43.8	42.9	41.2	41.0	42.3	41.6	42.6	42.7	43.2	44.9	45.9	46.2	45.8	47.1	47.4	53.6	49.5	50.1	49.6	34.4	28.4	40.0	39.9	36.8	43.4						
3 d	39.6	40.2	44.8	43.6	43.0	40.3	41.3	42.5	44.1	42.1	44.8	46.8	47.8	48.5	50.0	51.0	32.5	33.9	45.7	31.5	38.2	38.8	47.2	49.5	42.8						
4	48.7	39.0	39.7	41.7	38.7	40.2	42.7	43.1	43.9	43.8	45.6	45.6	47.0	45.7	42.7	46.0	44.9	43.7	29.6	30.7	40.7	38.4	42.6	40.8	41.9						
5	41.9	45.2	45.6	43.0	42.9	43.8	44.0	44.9	44.1	44.7	45.7	46.5	45.6	45.8	47.0	46.7	39.9	44.1	45.1	42.8	37.8	38.1	41.8	41.7	43.7						
6 q	41.0	41.8	42.6	43.0	43.1	42.9	42.9	43.2	43.4	44.3	44.2	44.2	44.7	44.8	44.1	43.8	43.9	44.0	43.8	43.7	43.7	43.0	42.7	43.1	43.4						
7	42.9	43.1	43.0	43.5	42.9	43.1	43.1	43.8	44.1	44.7	45.8	46.1	46.7	46.8	47.1	46.1	44.7	44.2	43.8	43.1	43.2	43.1	42.9	42.4	44.2						
8	43.7	42.5	42.7	42.6	42.6	43.6	43.2	43.5	43.6	44.7	44.7	44.6	45.6	46.8	47.2	46.8	46.1	40.1	44.2	41.3	40.9	41.2	41.1	41.9	42.0						
9	42.7	42.8	45.1	41.8	41.9	42.0	44.2	45.9	45.4	44.8	45.2	46.0	47.9	48.9	48.1	46.7	44.7	44.2	43.8	43.2	41.8	39.3	37.0	38.9	43.8						
10	42.8	38.1	40.2	39.9	40.3	42.3	43.2	44.0	44.8	45.0	44.3	46.1	48.2	47.7	46.9	50.3	47.0	42.8	42.2	42.3	42.0	42.0	42.0	42.2	43.6						
11 q	41.0	42.0	41.4	41.8	42.0	42.8	43.0	43.6	44.0	44.6	44.4	44.9	45.1	45.0	44.9	44.8	45.0	46.1	41.7	41.5	43.1	42.8	41.4	41.0	43.2						
12 q	41.4	42.8	42.2	43.3	43.0	43.1	43.1	42.6	42.5	44.1	44.5	44.2	44.1	44.2	44.9	44.9	45.7	45.2	45.8	43.1	40.9	40.1	40.2	39.2	43.1						
13 q	38.9	43.7	45.1	43.8	43.0	43.8	43.9	44.0	43.8	43.8	43.9	44.4	45.0	45.0	45.0	45.0	44.6	44.7	44.9	38.3	38.6	41.1	42.0	42.2	43.3						
14	42.2	42.5	43.0	43.2	43.7	43.4	43.2	43.9	43.6	44.4	44.5	45.0	46.7	48.0	50.0	55.1	47.8	46.7	45.1	43.8	42.7	41.5	40.8	40.0	44.6						
15	42.0	40.9	42.1	42.0	42.4	43.4	43.4	43.1	42.9	43.5	43.7	44.0	44.1	43.9	43.6	43.8	45.1	44.9	45.6	45.2	37.2	30.9	38.6	39.8	42.3						
16 d	27.9	38.2	41.4	42.3	43.9	44.6	45.4	45.8	45.0	45.2	56.1	53.7	55.9	59.2	54.9	50.8	41.8	45.4	28.4	31.1	31.9	41.9	38.4	36.8	43.6						
17 d	26.9	39.3	46.3	39.1	45.1	47.7	53.0	45.6	43.1	45.7	47.8	44.8	45.8	47.3	45.8	43.0	30.2	34.0	38.4	35.3	37.4	38.8	47.0	43.1	42.1						
18	39.0	38.9	44.8	44.0	42.1	43.1	44.3	47.7	45.1	40.8	43.1	45.0	43.3	44.4	36.9	43.9	42.8	40.4	37.0	28.9	28.3	39.4	42.4	42.1	41.2						
19 d	40.0	39.7	41.1	38.6	41.1	42.3	45.9	53.1	51.9	48.2	46.3	47.2	46.2	43.3	43.1	45.9	46.3	25.3	15.9	33.2	33.0	31.4	34.2	36.2	40.4						
20 d	45.9	43.0	41.2	41.4	42.0	44.0	46.2	47.1	48.1	47.3	47.8	43.7	46.4	39.1	40.9	39.2	34.8	24.1	39.1	23.5	27.0	37.3	41.1	34.0	40.2						
21	38.1	37.3	37.0	40.2	42.5	44.3	46.0	46.3	46.1	44.9	45.7	46.3	45.2	44.1	44.8	42.9	43.4	44.8	41.3	8.1	24.2	38.0	35.0	30.7	39.9						
22	42.5	45.5	44.2	41.4	42.0	43.2	44.5	43.9	44.2	42.2	43.1	47.3	45.1	45.3	41.3	42.4	31.6	37.0	38.1	30.5	34.4	38.9	41.4	35.2	41.1						
23	41.2	43.2	40.4	41.0	44.0	42.9	43.4	43.9	44.2	43.4	46.2	45.2	47.0	39.7	45.1	43.5	43.3	41.8	35.2	33.3	41.4	40.4	40.3	36.2	41.9						
24	39.5	35.4	36.1	39.2	41.4	41.3	43.5	44.9	44.2	44.1	44.4	45.0	45.2	45.3	44.2	44.0	44.9	45.3	44.4	40.3	38.8	41.2	42.6	42.5	42.4						
25	42.4	43.0	42.8	42.0	47.0	42.5	43.5	42.8	44.9	45.2	44.2	43.4	44.2	44.4	43.9	43.0	43.2	43.6	44.1	43.0	33.9	35.8	39.2	40.3	42.6						
26	42.9	44.1	39.6	41.4	43.0	43.1	43.1	42.1	42.6	43.4	43.2	45.0	46.9	48.9	47.5	44.9	33.8	46.1	42.5	33.5	35.1	39.1	39.1	41.3	42.2						
27	42.7	44.3	43.8	46.6	45.2	42.2	41.5	41.9	42.2	43.4	45.0	45.2	47.2	46.9	45.0	44.6	44.4	44.0	41.9	40.1	41.0	41.2	41.4	41.1	43.5						
28 q	41.9	43.1	43.3	42.4	43.2	43.3	45.5	43.2	42.8	43.4	44.2	45.2	45.2	45.1	44.0	43.4	43.3	43.0	43.1	42.7	42.8	42.5	42.2	42.3	43.4						
29	42.4	43.1	43.4	42.1	42.0	41.4	41.6	41.9	42.6	43.3	46.6	47.1	46.3	46.8	46.1	46.3	47.1	46.0	45.0	40.5	35.9	41.7	40.4	41.0	43.4						
30	41.6	42.6	43.2	43.2	43.4	43.9	43.6	43.3	43.2	43.6	44.2	45.2	45.2	45.9	45.9	46.9	47.4	45.2	45.2	44.1	43.2	42.5	42.4	42.2	44.0						
31	40.3	41.9	41.7	41.2	41.8	43.2	43.2	42.7	42.5	43.2	47.2	46.5	48.2	52.8	51.3	51.1	54.7	52.7	44.3	30.7	31.7	38.0	22.4	21.2	42.3						
Mean	41.0	41.7	42.3	42.1	42.7	43.0	43.9	44.2	44.2	44.2	45.4	45.7	46.3	46.2	45.6	46.0	43.2	42.8	41.0	37.1	37.6	39.5	40.4	39.6	42.7						

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

37

50 LERWICK (V)

46,000γ (0.46 C.G.S. unit) +

DECEMBER 1943

	Hour G.M.T.																								Mean
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	938	939	939	940	940	940	940	940	939	942	941	939	938	939	944	946	947	963	972	958	977	1006	980	958	950
2	948	947	944	943	941	941	941	940	940	937	936	933	930	930	935	938	1020	989	997	1027	1020	970	931	874	952
3 d	905	917	915	926	921	915	915	925	936	940	942	940	943	948	980	982	995	987	1000	967	970	953	922	875	942
4	848	885	912	913	918	923	922	927	932	935	939	940	940	961	970	964	953	957	973	978	965	955	889	914	934
5	934	926	917	912	909	922	924	932	938	936	940	944	948	948	959	955	960	954	948	951	952	941	943	943	939
6 q	941	942	941	940	938	937	937	937	938	937	937	937	937	938	939	938	937	937	936	937	940	944	948	950	939
7	951	939	938	937	933	933	932	932	934	934	935	937	942	942	941	938	937	937	937	937	937	940	941	943	938
8	941	941	937	937	933	930	930	930	931	932	935	936	936	939	943	946	958	955	958	954	947	945	942	938	941
9	937	934	927	915	917	913	913	916	921	925	926	930	935	938	944	959	971	958	948	947	953	954	946	937	936
10	895	899	912	918	916	915	915	920	917	925	926	930	941	945	950	961	968	954	943	937	934	934	937	938	930
11 q	938	938	937	937	936	935	932	930	929	930	932	932	934	937	938	940	940	943	944	941	937	936	934	933	936
12 q	934	934	935	934	934	934	933	932	930	930	930	932	934	937	939	942	943	945	945	952	957	955	947	924	938
13 q	923	926	927	925	930	931	929	929	928	928	928	929	931	934	936	938	938	938	939	944	939	935	933	933	932
14	933	934	935	935	934	932	932	928	927	925	926	929	931	933	943	980	995	962	948	946	941	943	942	943	941
15	924	937	939	940	939	937	937	937	937	934	935	936	937	936	936	937	939	940	942	948	958	971	937	888	938
16 d	863	901	926	922	923	928	922	924	932	954	941	948	968	1044	1074	1082	1058	1057	1075	1014	949	888	846	851	958
17 d	860	834	863	888	876	865	884	912	928	934	948	976	981	975	963	981	1004	988	973	967	957	924	895	808	924
18	854	899	908	896	913	925	932	935	936	941	940	944	950	953	985	972	974	972	977	945	941	936	939	937	938
19 d	916	886	879	899	916	921	924	926	925	938	954	960	973	988	973	959	996	1035	1031	986	938	870	896	901	941
20 d	850	824	889	915	920	926	927	934	936	937	951	972	963	979	985	995	1021	998	980	959	934	937	931	891	940
21	846	871	903	916	924	927	930	932	936	939	941	944	953	953	953	950	945	946	951	985	942	895	847	775	921
22	859	868	895	907	925	928	931	935	936	950	953	948	951	955	963	958	965	959	957	947	937	933	910	869	931
23	899	916	925	930	927	928	929	930	933	949	957	953	959	968	957	948	943	943	949	954	948	948	936	920	940
24	915	909	906	906	903	905	916	925	932	933	933	938	939	942	948	947	947	946	950	957	950	943	941	940	932
25	939	936	938	936	927	905	915	925	926	936	942	949	947	947	947	947	947	944	944	943	941	936	937	928	937
26	912	903	926	934	936	937	935	937	935	937	941	950	952	961	972	978	1020	988	979	1009	987	923	921	935	950
27	938	941	941	940	927	932	933	933	935	935	937	944	943	947	951	949	947	946	950	946	941	937	938	936	940
28 q	938	938	940	940	937	936	932	928	929	930	934	934	935	936	939	940	939	938	937	937	935	935	936	937	936
29	938	937	938	936	938	937	938	936	936	940	935	934	936	938	940	943	951	954	950	961	975	947	942	935	942
30	933	934	937	937	936	935	934	935	934	932	932	932	933	934	945	946	944	948	942	941	938	935	934	932	937
31	932	931	929	932	934	934	934	933	934	938	933	934	937	937	952	981	999	1031	1082	1054	1023	986	891	852	955
Mean	912	915	923	925	926	926	927	930	932	936	938	941	944	950	956	959	968	965	966	962	954	940	926	911	939

872 at 0-1h. January 1, 1944.

Corrections to be applied to all values: H, -6γ; D, -4.2'; V, -1γ.

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

51 LERWICK

DECEMBER 1943

S1	TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.
	Horizontal force				Declination				Vertical force							
	Maximum 14,000γ +	Minimum 14,000γ +	Range		Maximum 11° +	Minimum 11° +	Range		Maximum 46,000γ +	Minimum 46,000γ +	Range					
	h. m. γ	γ h. m.	γ		h. m. γ	γ h. m.	γ		h. m. γ	γ h. m.	γ					
1	21 0 407	371 16 2	36		16 44 54.5	33.7 18 16	20.8		21 15 1019	935 13 8	84		0,0,0,1,1,3,3,3	11	0	76.0
2	19 40 484	343 22 49	141		15 51 58.4	5.3 19 56	53.1		19 44 1062	847 23 11	215		1,1,1,1,2,4,5,4	19	1	76.0
3 d	19 10 451	327 23 51	124		14 28 56.8	13.9 19 8	42.9		18 54 1062	840 24 0	222		3,2,3,1,3,5,5,4	26	1	77.0
4	22 23 419	348 13 31	71		22 29 51.7	21.3 18 20	30.4		18 19 983	830 0 11	153		4,2,1,2,3,2,4,4	22	1	77.6
5	21 27 402	326 4 49	76		15 40 49.7	31.9 20 52	17.8		14 43 967	902 3 50	65		2,3,2,2,2,3,3,2	19	1	77.0
6 q	18 55 389	374 23 10	15		11 49 44.9	39.9 0 4	5.0		23 13 953	936 15 53	17		0,0,0,1,0,0,0,0	1	0	78.0
7	4 11 392	372 0 33	20		14 41 47.9	41.4 3 5	6.5		0 1 950	931 9 24	19		1,0,0,1,1,0,0,0	3	0	78.1
8	7 19 395	359 16 20	36		13 55 48.6	35.7 16 44	12.9		16 43 966	928 5 39	38		1,0,0,1,1,3,2,1	9	0	77.3
9	5 7 412	356 16 2	56		15 59 49.9	35.1 22 21	14.8		16 23 979	911 3 30	68		2,2,1,1,1,2,1,2	12	0	77.0
10	0 26 408	361 15 49	47		15 30 53.3	37.2 1 11	16.1		16 13 968	880 0 34	88		3,2,2,1,1,3,1,0	13	0	76.0
11 q	11 49 397	377 2 8	20		17 46 48.1	39.1 18 45	9.0		18 8 947	928 9 0	19		0,1,0,1,1,1,2,0	6	0	76.9
-12 q	23 15 402	377 22 54	25		17 9 46.9	35.9 24 0	11.0		20 34 960	916 24 0	44		0,0,0,1,1,1,2,3	8	0	76.8
13 q	19 53 400	371 19 14	29		2 40 47.7	34.1 20 0	13.6		19 17 954	916 0 0	38		3,1,0,1,1,0,3,0	9	0	76.9
14	7 14 402	368 23 46	34		15 30 58.9	38.2 23 9	20.7		15 58 1019	924 9 50	95		0,0,0,1,2,3,1,1	8	0	76.9
15	16 3 390	339 23 40	51		19 15 46.4	23.7 20 55	22.7		21 22 985	859 24 0	126		2,0,0,1,0,1,4,4	12	1	77.1
16 d	14 36 535	262 22 19	273		14 36 65.5	14.4 22 46	51.1		14 30 1121	831 22 32	290		4,1,3,4,5,3,5,5	30	2	77.4
17 d	16 57 409	264 4 25	145		6 35 57.3	9.0 16 46	48.3		16 40 1050	774 23 27	276		4,4,3,3,3,5,3,5	30	1	77.5
18	19 28 458	321 2 45	137		14 8 48.2	11.8 19 22	36.4		14 50 999	807 0 0	192		4,2,2,2,4,3,4,2	23	1	78.0
19 d	17 54 424	309 17 45	115		7 34 54.9	18.8 17 58	73.7		17 28 1070	843 21 33	227		3,2,3,3,3,6,6,4	30	2	78.0
20 d	23 47 475	183 0 55	292		0 49 57.5	5.9 17 16	51.6		16 40 1080	791 0 56	289		5,2,2,3,3,5,4,4	28	1	77.9
21	19 39 418	251 22 55	167		10 59 49.9	11.1 19 34	61.0		19 28 1001	738 23 19	263		5,2,0,2,2,1,5,5	22	1	77.6
22	19 13 413	329 1 26	84		11 55 50.0	16.8 19 9	33.2		16 31 977	840 0 0	137		3,2,1,3,2,4,4,4	23	1	77.6
23	13 45 395	345 13 7	50		12 37 49.6	23.6 19 11	26.0		13 11 976	886 0 0	90		2,2,0,2,3,2,3,3	17	1	77.6
24	20 24 400	359 20 6	41		17 45 47.0	33.4 20 21	13.6		20 14 967	900 5 18	67		2,2,2,1,1,2,3,1	14	0	77.3
25	6 3 403	351 11 1	52		4 45 49.7	28.3 20 24	21.4		11 4 952	902 5 29	50		0,3,2,2,1,1,3,2	14	0	77.1
26	16 47 415	344 21 25	71		17 41 52.9	13.4 16 47	39.5		16 42 1075	894 21 2	181		3,1,1,2,2,5,4,3	21	1	77.6
27	5 13 390	355 11 50	35		12 24 48.9	39.1 19 1	9.8		18 51 956	925 4 40	31		1,2,1,1,1,0,1,1	8	0	78.1
28 q	7 10 398	373 0 40	25		6 27 47.0	41.2 3 20	5.8		16 33 940	926 6 52	14		1,0,1,0,0,0,0,0	2	0	78.0
29	5 16 393	353 20 3	40		10 48 48.0	26.6 20 17	21.4		20 16 1001	930 23 50	71		0,1,1,2,0,2,3,2	11	0	78.3
30	19 5 393	365 14 37	28		15 48 48.0	40.4 0 0	7.6		14 55 950	931 9 21	19		0,0,0,0,2,1,0,0	3	0	78.0
31	22 35 448	326 23 58	122		16 12 61.8	6.3 22 58	55.5		18 43 1088	810 22 51	278		0,1,1,2,2,4,4,5	19	1	76.8
Mean	- - 417	337 - -	79		- - 51.6	24.1 - -	27.5		- - 999	878 - -	121		2.0	15.3	0.55	77.3

DIURNAL INEQUALITIES OF THE TERRESTRIAL MAGNETIC ELEMENTS

ALL DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

52 LERWICK												1943												
	Hour G.M.T.												12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12												
	HORIZONTAL FORCE																							
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	
Jan.	-4.3	-5.5	-6.4	-1.0	+3.9	+6.4	+7.7	+6.3	+3.2	-2.1	-6.2	-10.1	-6.8	-0.4	+2.9	+2.7	+2.7	+12.1	+7.1	+4.3	-4.3	-6.9	-2.5	-2.8
Feb.	-3.8	-4.0	-3.8	-0.8	+1.9	+5.4	+6.7	+6.7	+2.2	-2.5	-7.8	-10.5	-7.2	-3.3	-0.8	+3.1	+4.1	+5.2	+5.7	+7.9	+3.1	-0.7	-1.4	-5.4
Mar.	-5.7	-10.5	-4.9	-0.5	+4.2	+9.5	+10.1	+5.1	-2.7	-11.8	-17.7	-17.1	-11.2	-1.8	+7.0	+12.0	+10.7	+12.9	+16.1	+13.1	+7.4	-7.7	-9.9	-6.6
Apr.	-1.3	-21.1	-26.3	-9.2	-4.4	-4.6	-2.8	-4.8	-8.7	-19.0	-23.4	-22.7	-16.3	-5.0	+6.0	+14.5	+24.1	+27.0	+28.0	+25.1	+20.2	+15.2	+8.2	+1.3
May	-3.5	-8.9	-24.4	-12.0	-12.0	-10.8	-11.4	-15.6	-18.5	-24.4	-26.2	-21.7	-15.9	+0.2	+8.3	+19.2	+26.7	+35.5	+39.8	+34.1	+29.6	+12.9	+4.3	-3.3
June	-1.1	-7.7	-7.2	-3.4	-7.5	-6.2	-7.7	-16.3	-23.3	-30.1	-31.3	-26.6	-20.4	-8.6	+5.7	+14.8	+23.9	+35.7	+36.4	+32.4	+25.3	+16.9	+4.8	+1.5
July	-0.3	-11.6	-11.4	-8.9	-1.7	-5.8	-12.9	-17.0	-20.1	-27.5	-31.7	-29.6	-18.9	-7.7	+7.0	+19.6	+26.9	+35.3	+36.1	+30.9	+24.4	+13.3	+6.8	+4.8
Aug.	-55.8	-39.8	-41.0	-36.1	-28.0	-17.6	-11.8	-11.4	-12.9	-22.6	-21.3	-12.1	+11.2	+27.0	+47.6	+69.6	+57.5	+55.7	+49.7	+37.4	+13.6	-3.8	-16.2	-38.9
Sept.	-28.9	-27.2	-31.4	-22.7	-10.1	+2.1	-2.5	-2.3	-9.4	-18.1	-23.7	-17.0	-2.1	+9.6	+22.2	+23.1	+29.5	+33.8	+33.6	+24.6	+18.2	+8.2	-6.6	-2.9
Oct.	-15.9	-31.8	-14.5	+2.6	-0.4	+7.0	+4.1	-1.5	-9.5	-16.8	-17.8	-12.4	-1.9	+10.0	+13.7	+16.1	+19.9	+17.0	+16.7	+14.2	+8.6	+8.0	-1.8	-13.6
Nov.	-4.1	-10.4	-5.1	-6.5	-0.4	+6.4	+6.3	+3.8	-2.3	-6.4	-9.0	-6.6	-2.4	+3.3	+9.1	+8.2	+11.2	+9.6	+7.5	+5.4	+0.4	-8.7	+0.2	-9.5
Dec.	-9.1	-6.5	-3.5	-0.8	-0.3	+6.9	+10.0	+8.3	+4.9	-1.0	-2.0	-1.1	-2.0	-0.1	+0.9	+0.7	+0.1	+0.3	+2.5	+5.5	+1.2	-3.0	-4.8	-7.1
Year	-11.1	-15.4	-15.0	-8.3	-4.6	-0.1	-0.3	-3.2	-8.1	-15.2	-18.2	-15.6	-7.8	+1.9	+10.8	+17.0	+19.8	+23.3	+23.3	+19.6	+12.3	+3.6	-1.6	-6.9
Winter	-5.3	-6.6	-4.7	-2.3	+1.3	+6.3	+7.7	+6.3	+2.0	-3.0	-6.3	-7.1	-4.6	-0.1	+3.0	-3.7	+4.5	+6.8	+5.7	+5.8	+0.1	-4.8	-2.1	-6.2
Equinox	-12.9	-22.7	-19.3	-7.5	-2.7	+3.5	+2.2	-0.9	-7.6	-16.4	-20.7	-17.3	-7.9	+3.2	+12.2	+16.4	+21.1	+22.7	+23.6	+19.3	+13.6	+5.9	-2.5	-5.5
Summer	-15.2	-17.0	-21.0	-15.1	-12.3	-10.1	-10.9	-15.1	-18.7	-26.1	-27.6	-22.5	-11.0	+2.7	+17.1	+30.8	+33.7	+40.5	+40.5	+33.7	+23.2	+9.8	-0.1	-9.0

	DECLINATION																							
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	
Jan.	-2.17	-1.02	-0.24	-0.78	-0.59	-0.11	+0.05	-0.03	+0.02	+0.34	+1.16	+2.23	+3.55	+4.21	+3.55	+2.92	+2.74	+0.33	-0.29	-0.33	-2.43	-5.27	-4.92	-2.92
Feb.	-2.43	-1.53	-2.09	-2.01	-1.67	-1.36	-1.08	-0.79	-0.27	-0.03	+1.02	+2.55	+4.20	+4.76	+4.69	+3.46	+2.51	+1.69	+1.18	+0.20	-2.44	-3.10	-3.79	-3.67
Mar.	-1.62	-2.27	-2.11	-1.57	-1.98	-1.98	-1.90	-1.99	-1.96	-0.99	+1.54	+3.85	+6.15	+6.99	+6.67	+5.33	+3.21	+1.06	-0.04	-0.58	-3.79	-5.04	-4.37	-2.61
Apr.	-4.14	-3.60	-2.88	-3.45	-3.51	-2.95	-2.84	-2.56	-3.11	-1.30	+1.08	+3.98	+6.39	+7.45	+6.54	+4.54	+3.07	+1.95	+1.28	+0.06	-0.55	-1.63	-1.80	-2.02
May	-1.90	-2.56	-2.71	-3.45	-2.95	-3.58	-4.18	-4.06	-3.48	-1.37	+0.84	+3.23	+5.45	+6.09	+5.67	+4.78	+3.64	+2.58	+1.93	+1.55	+0.23	-0.76	-2.25	-2.74
June	-0.87	-2.56	-3.50	-3.78	-3.82	-4.29	-5.05	-4.59	-4.34	-2.64	-0.67	+2.58	+4.94	+5.68	+5.97	+5.43	+3.90	+2.71	+2.49	+2.08	+1.84	+0.25	-0.55	-1.21
July	-2.04	-1.96	-2.33	-3.19	-4.24	-4.24	-3.95	-4.34	-3.98	-2.76	-0.91	+1.83	+4.87	+6.43	+6.21	+5.74	+4.61	+3.33	+2.79	+1.69	-0.28	-0.29	-1.17	-1.82
Aug.	-3.36	-3.40	-2.71	-3.35	-3.29	-1.85	-1.80	-2.10	-1.86	-1.71	+0.48	+3.47	+5.87	+7.01	+6.53	+4.58	+4.10	+1.85	+1.07	-0.71	-0.81	-2.57	-2.32	-3.12
Sept.	-1.82	-1.21	-1.51	-2.98	-1.66	-0.67	-0.66	-0.72	-0.61	-0.17	+1.33	+3.23	+4.98	+6.18	+5.54	+4.08	+2.71	+1.10	-2.66	-2.92	-1.84	-2.94	-2.48	-4.30
Oct.	-2.11	-1.05	-2.63	-1.88	-1.28	+0.65	+1.25	+1.32	+1.55	+1.41	+2.63	+4.41	+5.36	+5.62	+3.30	+3.15	-1.25	-2.20	-4.03	-3.29	-3.23	-3.91	-2.44	-1.35
Nov.	-0.87	-0.23	+0.62	+1.10	+1.04	+2.20	+1.98	+2.36	+1.58	+1.38	+2.00	+3.19	+3.77	+3.26	+2.23	+1.55	-1.01	-2.50	-3.87	-4.98	-5.03	-4.91	-3.46	-1.40
Dec.	-1.75	-1.03	-0.41	-0.68	+0.01	+0.25	+1.19	+1.46	+1.45	+1.49	+2.65	+2.95	+3.53	+3.49	+2.89	+3.23	+0.43	+0.07	-1.72	-5.68	-5.16	-3.19	-2.38	-3.09
Year	-2.09	-1.87	-1.88	-2.17	-2.00	-1.49	-1.42	-1.34	-1.25	-0.53	+1.09	+3.13	+4.92	+5.60	+4.98	+4.07	+2.39	+1.00	-0.16	-1.08	-1.96	-2.78	-2.66	-2.52
Winter	-1.81	-0.95	-0.53	-0.59	-0.30	+0.25	+0.53	+0.75	+0.69	+0.79	+1.71	+2.73	+3.76	+3.93	+3.34	+2.79	+1.17	-0.10	-1.17	-2.70	-3.77	-4.12	-3.64	-2.77
Equinox	-2.42	-2.03	-2.28	-2.47	-2.11	-1.24	-1.04	-0.99	-1.03	-0.26	+1.65	+3.87	+5.72	+6.56	+5.51	+4.27	+1.93	+0.48	-1.36	-1.68	-2.35	-3.38	-2.77	-2.57
Summer	-2.04	-2.62	-2.81	-3.44	-3.57	-3.49	-3.75	-3.77	-3.41	-2.12	-0.07	+2.78	+5.28	+6.30	+6.09	+5.13	+4.06	+2.62	+2.07	+1.15	+0.25	-0.84	-1.57	-2.22

	VERTICAL FORCE																							
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	
Jan.	-16.2	-13.9	-14.3	-12.6	-8.4	-7.9	-8.0	-6.2	-4.5	-3.8	-2.1	+0.5	0.0	+3.8	+7.3	+10.0	+13.6	+25.9	+20.4	+13.4	+11.9	+0.2	-1.6	-7.5
Feb.	-11.1	-17.9	-17.8	-15.3	-12.7	-11.7	-7.5	-5.2	-3.0	-2.9	-1.3	+2.6	+0.7	+1.8	+4.4	+7.5	+10.8	+14.6	+18.5	+20.5	+18.8	+6.6	+2.1	-2.5
Mar.	-26.1	-26.5	-18.3	-18.2	-17.0	-11.1	-5.3	-2.6	-0.7	+0.2	+1.5	+1.8	+3.3	+5.3	+10.0	+17.9	+25.9	+26.8	+24.6	+22.0	+17.2	+2.5	-12.1	-21.1
Apr.	-33.8	-34.9	-41.6	-35.4	-28.4	-16.9	-10.1	-4.2	+0.2	+4.4	+7.6	+8.8	+10.1	+12.2	+18.1	+25.4	+28.7	+31.3	+29.5	+26.2	+18.6	+9.9	-3.3	-22.4
May	-32.7	-33.0	-40.3	-33.5	-24.0	-16.9	-9.2	-1.7	+1.7	+5.2	+6.0	+8.2	+8.8	+13.7	+21.8	+27.5	+32.6	+31.0	+28.7	+25.6	+18.1	+5.0	-14.0	-28.6
June	-27.7	-31.6	-24.2	-15.6	-11.4	-9.2	-3.6	-0.2	+2.8	+2.1	+2.1	+0.8	+3.4	+7.4	+10.2	+16.3	+20.7	+20.3	+21.3	+19.1	+13.4	+6.6	-8.6	-14.2
July	-18.9	-30.4	-31.5	-28.2	-19.4	-11.8	-9.9	-6.4	-2.8	+0.2	+0.4	-0.2	+1.2	+6.3	+13.8	+22.4	+29.9	+31.8	+27.1	+22.8	+16.7	+6.1	-5.4	-13.8
Aug.	-54.1	-62.4	-64.1	-56.4	-35.9	-27.1	-17.2	-5.4	+4.8	+12.4	+18.1	+20.1	+25.3	+39.5	+49.6	+58.1	+57.6	+53.6	+46.7	+32.2	+8.2	-14.8	-35.2	-53.6
Sept.	-57.5	-63.7	-63.4	-53.3	-38.3	-23.3	-7.0	+2.0	+8.8	+15.8	+20.5	+28.7	+31.0	+30.8	+42.7	+45.9	+47.3	+50.4	+42.0	+26.5	+17.0	-16.9	-39.9	-46.1
Oct.	-57.5	-63.0	-55.2	-34.2	-24.0	-14.6	-5.0	+2.6	+7.5	+11.0	+16.9	+20.4	+27.1	+33.1	+42.9	+43.0	+47.4	+45.1	+36.1	+20.0	-7.0	-18.8	-32.7	-41.1
Nov.	-35.0	-28.0	-24.6	-26.9	-28.5	-23.6	-14.9	-7.7	+1.0	+4.7	+12.2	+14.3	+20.4	+25.1	+32.6	+35.3	+35.7	+28.9	+26.3	+15.6	+0.9	-10.0	-19.3	-34.5
Dec.	-26.7	-23.9	-16.5	-13.6	-13.1	-13.0	-11.6	-8.7	-6.7	-3.1	-0.9	+2.5	+5.4	+11.4	+17.4	+20.4	+28.							

INTERNATIONAL QUIET DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

53 LERWICK

1943

	Hour G.M.T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	HORIZONTAL FORCE																							
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	-5.6	-4.0	-3.6	-2.4	-2.2	-0.3	+2.4	+3.4	+2.2	+1.0	-0.6	-3.4	-4.0	0.0	+3.0	+3.4	+1.4	+3.9	+3.4	+2.4	+1.6	-1.6	-0.8	+0.4
Feb.	-1.6	-1.5	-0.4	+2.1	+4.0	+5.1	+6.6	+7.3	+3.8	-3.5	-8.2	-12.1	-11.2	-6.5	-1.6	-1.1	+0.8	+2.9	+1.0	+1.1	+1.8	+4.5	+3.8	+2.9
Mar.	+4.8	+3.7	+2.8	+3.3	+3.6	+5.5	+8.0	+5.7	-2.2	-13.5	-21.8	-23.7	-21.0	-10.9	-5.6	+1.7	+3.0	+5.9	+8.0	+10.7	+10.6	+6.5	+6.8	+8.1
Apr.	+4.7	+4.1	+4.2	+3.9	+4.3	+5.9	+5.7	+0.9	-7.4	-20.3	-28.5	-31.7	-25.9	-13.7	-4.0	+2.9	+5.9	+8.5	+12.9	+15.5	+15.8	+13.9	+11.3	+11.1
May	+8.0	+4.1	+3.0	-0.2	+2.2	+1.7	-2.2	-9.0	-17.8	-26.5	-32.4	-28.4	-17.6	-9.5	-3.2	+4.4	+9.4	+16.5	+20.2	+20.8	+17.4	+13.9	+12.8	+12.4
June	+4.5	+3.1	+3.1	+3.7	+3.3	+1.2	-3.7	-11.1	-18.5	-27.9	-30.5	-29.3	-20.3	-10.9	+1.3	+8.1	+15.5	+17.2	+20.3	+19.7	+16.3	+14.5	+11.5	+8.9
July	+2.7	-0.5	-1.3	+0.5	+0.5	+1.5	-0.1	-5.1	-12.3	-22.5	-27.3	-24.9	-20.5	-14.5	-7.7	+0.3	+7.7	+16.5	+20.3	+22.3	+21.1	+16.7	+15.3	+11.3
Aug.	-5.1	-7.1	-14.1	-13.1	-1.1	+2.4	-0.3	-5.5	-10.9	-19.5	-22.7	-17.5	-6.9	-3.3	+4.1	+6.1	+9.3	+11.8	+18.9	+17.3	+19.1	+17.7	+12.7	+7.7
Sept.	-0.9	-1.3	+2.7	+1.3	+1.5	+0.5	-0.1	-4.5	-11.1	-18.5	-21.7	-20.9	-15.5	-6.1	-1.3	+3.3	+6.7	+11.9	+14.1	+16.9	+22.9	+16.7	+7.5	-4.1
Oct.	-0.2	+0.2	+2.9	+2.6	+3.8	+5.0	+5.2	+1.4	-6.7	-16.8	-20.8	-16.8	-10.6	-2.8	-2.1	+0.6	+2.4	+4.6	+2.8	+6.4	+8.7	+12.0	+11.4	+6.8
Nov.	-1.1	-1.2	-1.4	-0.3	+0.2	+3.0	+5.7	+4.0	+0.4	-5.5	-8.4	-8.4	-5.5	-2.2	+1.0	+1.1	+2.2	+2.0	+2.5	+3.2	+2.8	+2.1	+1.4	+2.4
Dec.	-5.4	-5.6	-5.2	-1.8	+1.6	+3.3	+4.6	+6.2	+5.0	+1.8	+0.4	+0.2	0.0	+0.4	-1.0	-1.0	-0.4	+0.3	+1.4	+1.0	-0.2	-1.4	-2.4	-1.8
Year	+0.4	-0.5	-0.6	0.0	+1.8	+2.9	+2.7	-0.5	-6.3	-14.3	-18.5	-18.1	-13.3	-6.7	-1.4	+2.5	+5.3	+8.5	+10.5	+11.4	+11.5	+9.6	+7.7	+5.5
Winter	-3.4	-3.1	-2.7	-0.6	+0.9	+2.8	+4.8	+5.2	+2.9	-1.5	-4.2	-5.9	-5.2	-2.1	+0.3	+0.6	+1.0	+2.3	+2.1	+1.9	+1.5	+0.9	+0.5	+1.0
Equinox	+2.1	+1.7	+3.1	+2.8	+3.3	+4.2	+4.7	+0.9	-6.9	-17.3	-23.2	-23.3	-18.3	-8.4	-3.3	+2.1	+4.5	+7.7	+9.5	+12.4	+14.5	+12.3	+9.3	+5.5
Summer	+2.5	-0.1	-2.3	-2.3	+1.2	+1.7	-1.6	-7.7	-14.9	-24.1	-28.2	-25.0	-16.3	-9.6	-1.4	+4.7	+10.5	+15.5	+19.9	+20.0	+18.5	+15.7	+13.1	+10.1

DECLINATION																								
Jan.	-0.98	-0.13	-0.16	-0.79	-0.92	-0.37	-0.48	-0.97	-1.12	-0.85	+0.34	+1.63	+2.02	+2.43	+2.24	+1.83	+1.48	+0.93	+0.66	+0.03	-0.58	-2.49	-2.28	-1.47
Feb.	-0.90	-1.48	-1.40	-1.62	-1.82	-1.16	-1.10	-1.20	-1.08	-0.94	+0.20	+2.42	+4.22	+4.38	+3.68	+2.52	+1.70	+1.38	+0.32	-0.38	-1.64	-2.70	-1.98	-1.42
Mar.	-1.28	-0.36	-0.18	-0.80	-0.90	-0.77	-2.16	-2.96	-3.32	-2.66	-0.54	+2.28	+4.24	+5.40	+4.60	+3.52	+2.08	+1.19	+0.66	+0.66	+0.02	-1.24	-3.40	-4.04
Apr.	-0.91	-1.06	-1.24	-1.45	-2.20	-2.60	-3.79	-4.48	-4.32	-2.93	-1.06	+1.72	+4.41	+5.64	+5.00	+3.33	+2.68	+1.74	+1.13	+1.14	+1.50	+0.75	-0.82	-2.18
May	-1.58	-1.15	-1.48	-1.83	-3.49	-5.06	-5.67	-5.21	-4.04	-0.93	+1.82	+4.07	+5.86	+5.45	+4.22	+3.13	+1.87	+0.78	+0.91	+0.61	+0.74	+0.59	+0.43	-0.04
June	-0.69	-1.78	-2.52	-3.77	-4.80	-5.96	-5.99	-5.88	-5.20	-2.99	-0.40	+2.52	+4.83	+5.68	+5.86	+4.83	+3.26	+2.34	+1.97	+2.32	+2.34	+2.15	+1.42	+0.46
July	-0.13	-0.80	-1.18	-2.89	-3.70	-4.76	-5.61	-5.46	-4.94	-2.91	-0.86	+1.34	+4.51	+5.90	+5.54	+4.19	+2.90	+2.14	+1.81	+1.80	+1.66	+1.31	+0.46	-0.32
Aug.	-0.01	-2.63	-2.19	-3.81	-3.79	-4.54	-4.37	-3.61	-2.85	-1.15	+0.53	+2.99	+5.53	+6.03	+5.49	+3.75	+1.99	+1.02	+1.25	+1.31	+0.91	+0.17	-0.05	-1.97
Sept.	-1.06	-0.79	-1.77	-2.44	-2.53	-2.47	-2.44	-2.85	-2.75	-1.42	+0.27	+2.39	+4.40	+5.23	+5.43	+4.10	+1.99	+2.93	+2.12	+1.57	+0.33	-0.86	-4.81	-4.57
Oct.	-0.94	-1.12	-1.55	-1.66	-1.18	-1.16	-1.58	-2.20	-2.33	-1.44	+0.60	+3.44	+4.72	+4.58	+3.35	+1.98	+1.02	+0.16	+0.14	+0.14	-0.61	-1.46	-2.22	-0.68
Nov.	+0.02	-0.07	-0.34	-0.56	-1.06	-0.59	-0.88	-1.10	-1.00	+0.11	+0.88	+2.24	+2.96	+2.63	+1.88	+1.26	+1.36	+1.41	+0.32	-1.42	-2.16	-2.51	-2.08	-1.30
Dec.	+2.45	-0.60	-0.37	-0.43	-0.43	-0.10	+0.39	+0.03	+0.01	+0.76	+0.95	+1.29	+1.53	+1.54	+1.29	+1.09	+1.21	+1.32	+0.57	-1.43	-1.47	-1.38	-1.59	-1.73
Year	-0.91	-1.00	-1.20	-1.84	-2.23	-2.46	-2.81	-2.99	-2.75	-1.45	+0.23	+2.36	+4.10	+4.57	+4.05	+2.96	+1.96	+1.45	+0.99	+0.53	+0.08	-0.64	-1.41	-1.61
Winter	-1.08	-0.57	-0.57	-0.85	-1.06	-0.55	-0.52	-0.81	-0.80	-0.23	+0.59	+1.89	+2.68	+2.75	+2.27	+1.67	+1.44	+1.26	+0.47	-0.80	-1.46	-2.27	-1.98	-1.48
Equinox	-1.05	-0.83	-1.19	-1.59	-1.70	-1.75	-2.49	-3.12	-3.18	-2.11	-0.18	+2.46	+4.44	+5.21	+4.59	+3.23	+1.94	+1.51	+1.01	+0.88	+0.30	-0.70	-2.81	-2.87
Summer	-0.60	-1.59	-1.84	-3.07	-3.95	-5.08	-5.41	-5.04	-4.26	-1.99	+0.27	+2.73	+5.18	+5.77	+5.28	+3.97	+2.51	+1.57	+1.49	+1.51	+1.41	+1.05	+0.57	-0.47

VERTICAL FORCE																								
Jan.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Feb.	+0.2	-2.7	-4.1	-3.0	-2.1	-2.5	-2.6	-2.1	-1.7	-2.4	-2.7	-2.5	-3.0	-2.1	+0.1	+1.0	+2.5	+2.1	+3.0	+3.5	+5.5	+8.0	+5.7	+1.9
Mar.	-4.7	-7.5	-7.1	-7.7	-5.5	-3.3	-2.5	-2.3	-1.1	+0.5	-0.5	-1.9	-2.9	-1.7	+0.9	+3.3	+4.1	+5.7	+8.7	+9.9	+9.7	+4.1	+2.1	-0.3
Apr.	-3.7	-3.5	-6.1	-4.9	-2.1	-2.3	-1.3	+0.3	+0.9	+0.3	-2.1	-3.1	-2.1	-2.9	+0.1	+2.5	+5.9	+7.1	+6.3	+6.5	+5.5	+4.1	+2.9	-8.3
May	-1.6	+0.7	+1.4	+2.3	+3.1	+2.6	+2.9	+1.9	+1.0	+0.1	-1.2	-4.3	-7.0	-7.1	-5.6	-2.9	-0.3	+2.8	+3.1	+2.9	+2.4	+2.3	+2.0	-1.5
June	-9.2	-7.0	-2.7	+0.6	+1.8	+4.2	+5.6	+5.6	+3.1	-2.6	-7.6	-10.8	-10.2	-7.2	-3.5	+2.0	+6.2	+7.4	+7.8	+8.8	+6.3	+3.6	+1.0	-3.2
July	+0.6	+0.8	+2.4	+3.6	+2.8	+1.7	+1.6	-0.6	-3.0	-5.0	-6.0	-7.4	-5.6	-4.2	-3.0	+0.2	+3.8	+4.9	+4.0	+3.4	+2.4	+1.0	+0.6	+1.0
Aug.	-2.1	-6.1	-3.1	-4.7	-1.9	-1.1	+0.7	+1.7	+3.5	+1.9	-2.1	-5.7	-4.1	-2.3	-1.7	+0.1	+2.3	+2.3	+3.5	+2.5	+3.9	+5.1	+4.5	+2.9
Sept.	-30.0	-22.3	-22.8	-18.2	-12.2	-5.7	+1.6	+5.4	+7.2	+8.7	+7.0	+3.0	-0.2	+4.9	+5.4	+7.8	+11.0	+9.5	+8.4	+9.8	+9.4	+9.9	+8.6	-6.2
Oct.	-16.9	-11.8	-8.5	-1.0	+1.2	+4.1	+4.4	+4.8	+4.5	+3.2	+0.5	-1.2	-3.5	-2.2	+2.5	+6.6	+13.4	+10.3	+11.4	+13.0	+6.5	+0.8	-9.3	-32.8
Nov.	-8.3	-7.4	-3.9	-0.4	+1.2	+1.7	+2.0	+2.2	+1.9	+0.8	-2.1	-5.6	-7.5	-5.8	-0.5	+4.6	+6.4	+9.1	+11.2	+8.0	+4.1	-0.6	-5.3	-5.8
Dec.	-6.0	-2.9	0.0	+1.2	+1.8	-0.5	-2.0	-2.4	-2.8	-3.5	-2.6	-2.0	-1.6	-1.1	+0.6	+3.0	+4.6	+5.5	+6.6	+6.4	+3.8	+0.9	-2.0	-5.0
Year	-1.5	-0.6	-0.3	-1.0	-1.2	-1.7	-3.6	-5.0	-5.5	-5.2	-4.1	-3.4	-2.1	+0.2	+1.9	+3.4	+3.2	+3.9	+4.0	+6.0	+5.3	+4.8	+3.3	-0.8
Winter	-6.9	-5.9	-4.6	-2.8	-1.1	-0.2	+0.6	+0.8	+0.7	-0.3	-2.0	-3.7	-4.1	-2.6	-0.2	+2.6	+5.3	+5.9	+6.5	+6.7	+5.4	+3.7	+1.2	-4.9
Equinox	-3.0	-3.4	-2.9	-2.6	-1.7	-2.0	-2.7	-2.9	-2.8	-2.7	-2.5	-2.5	-2.4	-1.2	+0.9	+2.7	+3.6	+4.3	+5.6	+6.5	+6.1	+4.5	+2.3	-1.1
Summer	-7.6	-5.5	-4.3	-1.0	+0.9	+1.5	+2.0	+2.3	+2.1	+1.1	-1.2	-3.5	-5.0	-4.5	-0.9	+2.7	+6.3	+7.3	+8.0	+7.6	+4.6	+1.7	-2.4	-12.1
Summer	-10.2	-8.7	-6.5	-4.7	-2.4	-0.2	+2.4	+3.0	+2.7	+0.7	-2.2	-5.2	-5.0	-2.2	-0.7	+2.5	+5.8	+6.0	+5.9	+6.1	+5.5	+4.9	+3.7	-1.4

DIURNAL INEQUALITIES OF THE TERRESTRIAL MAGNETIC ELEMENTS
INTERNATIONAL DISTURBED DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

54 LERWICK

1943

	Hour G.M.T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
HORIZONTAL FORCE																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	-6.4	-7.7	-19.8	-3.4	+10.0	+14.3	+10.6	+8.2	+3.2	-1.1	-11.4	-28.0	-18.2	+1.7	+6.6	+3.4	+12.2	+67.1	+38.4	+25.6	-29.8	-47.9	-11.8	-15.8
Feb.	-10.7	-8.0	-1.1	-0.3	+0.9	+9.8	+8.7	+8.3	-2.7	-2.4	-11.1	-14.3	-1.9	+16.4	+2.5	+7.3	+9.7	+12.2	+14.9	+27.3	+10.9	-12.6	-14.5	-39.3
Mar.	-38.2	-58.7	-22.4	-2.1	+5.8	+20.9	+18.8	+17.9	+8.4	-3.7	-16.0	-3.3	+12.8	+23.7	+27.8	+36.5	+24.2	+35.9	+45.4	+29.1	+4.2	-54.5	-61.0	-51.5
Apr.	-28.9	-97.0	-89.7	-38.5	-38.9	-46.4	-26.5	-13.7	-8.1	-19.2	-12.3	+0.9	+9.3	+20.4	+39.5	+51.3	+54.3	+64.2	+53.9	+58.3	+32.9	+21.8	+10.5	+1.9
May	-8.4	-44.6	-133.2	-57.8	-46.8	-45.3	-38.8	-18.4	-10.4	-18.4	-11.0	+4.0	+5.0	+40.0	+55.0	+69.8	+72.8	+75.7	+85.4	+53.2	+40.2	+2.2	-21.4	-48.8
June	-9.4	-8.0	-13.6	-5.7	-20.0	-17.0	-10.8	-21.2	-26.3	-36.8	-32.2	-27.8	-18.2	-12.0	+7.3	+24.0	+39.0	+69.6	+59.0	+45.6	+24.5	+5.2	-5.0	-10.2
July	-11.9	-45.7	-29.9	-9.9	-5.3	-25.4	-35.3	-44.3	-33.9	-28.9	-38.3	-23.7	-13.5	+1.7	+14.7	+48.7	+49.9	+59.2	+66.3	+56.5	+34.7	+12.3	-0.5	+2.5
Aug.	-96.4	-57.9	-103.2	-128.7	-130.4	-69.1	-32.0	-6.9	+5.0	-21.5	-14.4	+21.7	+96.4	+141.9	+186.2	+259.9	+177.8	+123.9	+84.6	+47.1	-55.8	-88.1	-99.8	-240.3
Sept.	-42.3	-69.1	-67.3	-71.3	-46.9	-2.2	-1.3	+2.1	-10.1	-24.3	-19.9	+1.9	+28.1	+38.1	+74.7	+68.1	+57.7	+57.8	+44.9	+30.3	+14.5	-11.3	-57.1	+4.9
Oct.	-55.1	-64.1	-7.1	+3.3	-23.3	+1.5	-17.1	-24.9	-33.9	-29.7	-26.1	-7.7	+16.5	+45.7	+52.5	+34.3	+61.9	+47.7	+26.5	+16.5	+16.9	+26.5	+0.7	-61.5
Nov.	-7.8	-20.0	-11.0	-23.2	-12.0	+10.5	+2.2	-0.4	-10.6	-10.6	-5.2	-0.8	+5.4	+18.0	+32.8	+25.0	+23.2	+21.9	+18.4	+13.8	-5.6	-4.4	-2.6	-57.0
Dec.	-24.7	-16.4	+4.3	+2.8	-6.6	+8.1	+19.4	+12.0	+5.7	-9.4	-15.9	-6.2	-5.5	-1.8	+17.3	+7.4	+9.8	+6.9	+7.0	+9.2	+3.5	-6.6	-7.7	-12.6
Year	-28.3	-41.4	-41.2	-27.9	-26.1	-11.7	-8.5	-6.8	-9.5	-17.2	-17.8	-6.9	+9.7	+27.0	+43.1	+53.0	+49.4	+53.5	+45.4	+34.4	+7.6	-13.1	-22.5	-44.0
Winter	-12.6	-13.0	-6.9	-6.0	-1.9	+10.7	+10.2	+7.0	-1.1	-5.9	-10.9	-12.3	-5.1	+6.1	+14.8	+10.8	+13.7	+27.0	+19.7	+19.0	-5.3	-17.9	-9.2	-31.2
Equinox	-41.1	-72.2	-46.6	-27.1	-25.8	-6.5	-6.5	-4.7	-10.9	-19.2	-18.6	-3.1	+16.7	+32.0	+48.6	+47.6	+49.5	+51.4	+42.7	+33.6	+17.1	-4.4	-26.7	-26.6
Summer	-31.5	-39.1	-70.0	-50.5	-50.6	-39.2	-29.2	-22.7	-16.4	-26.4	-24.0	-6.5	+17.4	+42.9	+65.8	+100.6	+84.9	+82.1	+73.8	+50.6	+10.9	-17.1	-31.7	-74.2

DECLINATION																								
Jan.	-5.77	-2.36	+1.07	+0.90	+0.76	+1.23	+0.80	+2.36	+2.85	+2.42	+2.07	+4.32	+6.81	+7.22	+5.51	+4.88	+7.66	-2.21	-6.10	-2.28	-5.01	-12.96	-9.23	-4.94
Feb.	-3.81	-0.76	-4.59	-5.61	-2.23	-2.02	-0.77	+0.45	+2.27	+2.34	+2.27	+2.75	+5.19	+6.32	+6.67	+4.89	+5.55	+4.16	+0.29	+0.89	-3.61	-4.94	-7.01	-8.69
Mar.	-3.21	-7.07	-6.05	-2.97	-2.71	-2.10	+0.27	-1.19	-0.71	-0.17	+4.03	+6.19	+8.65	+10.77	+11.03	+8.47	+7.07	+3.46	-3.57	-0.67	-12.69	-7.99	-6.21	-2.63
Apr.	-12.61	-8.86	-10.85	-11.05	-3.47	-0.08	+1.27	+1.07	-1.75	+0.74	+2.65	+6.47	+8.75	+9.04	+8.81	+6.07	+4.93	+3.44	+3.03	+0.67	-2.15	-2.56	-3.13	-0.43
May	-3.76	-7.84	-7.01	-5.56	-0.56	+1.38	+0.58	-1.68	-3.05	-0.76	+0.92	+1.90	+5.32	+6.54	+6.21	+5.04	+4.68	+4.02	+3.04	+1.72	-1.07	-0.76	-3.10	-6.20
June	-4.61	-5.52	-4.10	-4.09	-2.86	-1.02	-2.61	-2.08	-2.12	-1.35	-0.84	+2.40	+3.95	+6.06	+5.78	+6.43	+4.46	+1.36	+2.13	+0.64	+0.94	+0.51	-1.76	-1.70
July	-2.85	-2.82	-0.54	-2.41	-3.90	-2.46	-1.69	-2.14	-2.26	-2.11	-0.84	+0.66	+2.33	+4.90	+5.30	+4.97	+5.98	+4.96	+3.11	+1.92	-3.24	-0.49	-2.90	-2.48
Aug.	-5.33	-6.36	-1.73	-4.05	-3.49	+2.96	-0.43	+0.39	-1.11	+0.94	+3.33	+5.21	+5.97	+8.82	+7.19	+5.43	+5.49	+3.48	+3.45	-4.43	-2.13	-10.86	-7.97	-4.77
Sept.	-1.49	+0.17	-0.57	-0.71	+4.73	+6.00	+3.09	+2.49	+1.11	-0.59	+0.01	+0.95	+3.13	+4.57	+5.15	+3.65	+2.69	-2.40	-7.63	-4.55	-3.19	-5.89	-3.09	-7.63
Oct.	-5.43	-1.56	-6.39	-4.17	+0.97	+4.68	+6.85	+4.81	+6.97	+5.18	+4.11	+4.43	+6.45	+5.60	-0.55	+4.13	-6.29	-5.66	-6.33	-4.35	-4.21	-5.04	-5.59	+1.39
Nov.	-0.96	-3.10	0.00	+2.04	+4.36	+7.47	+6.92	+7.74	+5.44	+5.08	+3.52	+4.76	+2.70	+4.36	-0.26	-1.08	-3.88	-6.27	-5.22	-10.30	-9.34	-9.10	-4.72	-0.16
Dec.	-5.76	-1.73	+1.14	-0.81	+1.20	+1.97	+4.54	+5.01	+4.62	+3.89	+6.74	+5.43	+6.60	+5.67	+5.12	+4.17	-4.70	-9.27	-8.32	-10.89	-8.32	-4.17	-0.24	-1.89
Year	-4.63	-4.07	-3.30	-3.21	-0.60	+1.50	+1.57	+1.44	+1.02	+1.30	+2.33	+3.79	+5.49	+6.66	+5.50	+4.75	+2.80	-0.08	-1.84	-2.64	-4.50	-5.35	-4.58	-3.34
Winter	-4.07	-1.99	-0.59	-0.87	+1.02	+2.16	+2.87	+3.89	+3.79	+3.43	+3.65	+4.31	+5.33	+5.89	+4.26	+3.21	+1.16	-3.40	-4.84	-5.65	-6.57	-7.79	-5.30	-3.92
Equinox	-5.69	-4.33	-5.97	-4.73	-0.12	+2.13	+2.87	+1.79	+1.40	+1.29	+2.70	+4.51	+6.75	+7.49	+6.11	+5.58	+2.10	-0.29	-3.63	-2.23	-5.56	-5.37	-4.51	-2.33
Summer	-4.14	-5.89	-3.35	-4.03	-2.70	+0.21	-1.04	-1.38	-2.13	-0.82	+0.64	+2.54	+4.39	+6.58	+6.12	+5.47	+5.15	+3.45	+2.93	-0.04	-1.37	-2.90	-3.93	-3.79

	VERTICAL FORCE																							
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	-58.0	-41.5	-33.8	-32.5	-22.3	-18.4	-16.1	-15.7	-14.8	-13.9	-4.4	+5.7	+4.4	+19.3	+29.4	+37.9	+45.7	+111.2	+75.5	+29.5	+15.4	-41.7	-30.4	-30.5
Feb.	-26.1	-30.9	-41.0	-37.9	-43.1	-40.3	-20.3	-12.5	-4.2	-9.3	-1.1	+19.5	+5.9	+1.3	+6.0	+12.9	+19.7	+34.3	+56.7	+67.3	+43.8	+1.5	+0.5	-2.7
Mar.	-69.6	-80.1	-50.5	-42.4	-50.5	-29.5	-12.0	-1.9	+8.5	+13.0	+21.9	+18.9	+21.6	+25.9	+32.3	+42.8	+47.5	+39.9	+44.8	+37.3	+35.7	+7.0	-13.5	-47.1
Apr.	-88.0	-105.9	-127.2	-103.9	-105.6	-65.5	-39.2	-15.1	+7.0	+23.5	+36.0	+43.7	+52.2	+51.1	+51.6	+75.3	+80.2	+84.7	+78.4	+77.3	+51.0	+22.9	-14.2	-70.3
May	-67.4	-96.5	-146.0	-137.9	-87.1	-67.8	-39.3	-8.1	+16.8	+34.3	+43.8	+59.9	+52.8	+53.7	+69.6	+84.3	+86.7	+74.0	+65.3	+61.5	+48.8	+19.5	-44.6	-76.3
June	-59.2	-47.1	-30.7	-30.2	-30.1	-32.7	-19.4	-9.1	-0.5	+3.8	+7.9	+7.3	+15.8	+22.9	+29.3	+37.8	+41.5	+48.5	+45.4	+35.9	+15.3	-3.4	-20.9	-28.1
July	-38.5	-59.8	-75.2	-49.5	-28.8	-18.0	-16.9	-9.0	-6.0	-0.5	+6.6	+7.6	+16.7	+22.0	+30.6	+41.5	+59.6	+61.8	+43.1	+32.4	+25.6	+2.7	-19.4	-28.6
Aug.	-97.4	-80.3	-103.6	-117.3	-66.2	-62.7	-38.2	-29.1	+9.0	+30.1	+52.6	+61.5	+77.8	+117.1	+132.0	+141.3	+137.2	+100.3	+83.2	+43.5	-46.0	-102.7	-103.2	-138.9
Sept.	-89.4	-97.4	-116.4	-112.0	-106.0	-78.9	-29.2	-7.4	+13.4	+34.4	+43.8	+76.4	+95.2	+82.2	+112.0	+119.6	+105.8	+104.3	+76.2	+29.2	+16.0	-76.4	-118.0	-77.4
Oct.	-122.3	-146.1	-94.6	-47.3	-55.3	-47.1	-19.9	+0.7	+13.4	+25.1	+48.5	+53.3	+49.9	+80.1	+107.2	+96.1	+98.7	+82.7	+59.5	+32.7	-32.2	-36.5	-47.7	-98.9
Nov.	-76.6	-46.6	-49.4	-60.4	-75.6	-59.9	-38.6	-20.6	+5.8	+23.8	+34.8	+43.8	+70.6	+56.8	+75.2	+95.6	+75.8	+48.9	+44.8	+19.4	-8.8	-27.0	-26.2	-105.6
Dec.	-62.4	-68.7	-46.8	-31.1	-29.9	-30.2	-26.7	-16.9	-9.8	-0.5	+6.0	+18.1	+24.4	+45.7	+53.8	+58.7	+73.7	+71.8	+70.7	+37.5	+8.4	-26.7	-43.2	-75.9
Year	-71.2	-75.1	-76.3	-66.9	-58.4	-45.9	-26.3	-12.1	+3.2	+13.7	+24.7	+34.6	+40.6	+48.2	+60.7	+70.3	+72.7	+71.9	+62.0	+42.0	+14.4	-21.7	-40.1	-65.0
Winter	-55.8	-46.9	-42.7	-40.5	-42.7	-37.2	-25.4	-16.4	-5.7	0.0	+8.8	+21.8	+26.3	+30.8	+41.1	+51.3	+53.7	+66.5	+61.9	+38.4	+14.7	-23.5	-24.8	-53.7
Equinox	-92.3	-107.4	-97.2	-76.4	-79.3	-55.3	-25.1	-5.9	+10.6	+24.0	+37.5	+48.1	+54.7	+59.8	+75.8	+83.5	+83.1	+77.9	+64.7	+44.1	+17.6	-20.7	-48.3	-73.4
Summer	-65.6	-70.9	-88.9	-83.7	-53.1	-45.3	-28.5	-13.8	+4.8	+16.9	+27.7	+34.1	+40.8	+53.9	+65.4	+76.2	+81.3	+71.1	+59.3	+43.3	+10.9	-21.0	-47.0	-68.0

The ranges are derived from the diurnal inequalities
printed in Tables 52 to 54

Arithmetical averages of diurnal inequalities in
Tables 52 to 54 taken regardless of sign

55 LERWICK										56 LERWICK									
1943										1943									
	All days			Quiet days			Disturbed days				All days			Quiet days			Disturbed days		
	H	D	V	H	D	V	H	D	V		H	D	V	H	D	V	H	D	V
	γ	γ	γ	γ	γ	γ	γ	γ	γ		γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	22.2	9.48	42.1	9.5	4.92	12.1	115.0	20.62	169.1	Jan.	4.9	1.76	8.9	2.4	1.13	1.8	16.8	4.24	31.1
Feb.	18.4	8.55	38.4	19.4	7.08	17.4	66.6	15.36	110.4	Feb.	4.3	2.19	9.1	4.0	1.73	4.1	9.9	3.67	22.5
Mar.	33.8	12.03	53.3	34.4	9.44	15.4	106.4	23.72	127.6	Mar.	9.0	2.90	13.3	8.2	2.05	1.7	25.9	4.99	33.1
Apr.	54.3	11.59	72.9	47.5	10.12	10.2	161.2	21.65	211.9	Apr.	14.1	3.03	19.3	11.0	2.42	1.3	34.8	4.75	61.2
May	66.0	10.27	72.9	53.2	11.53	19.6	218.6	14.38	232.7	May	17.4	3.00	19.5	12.2	2.54	5.3	41.9	14.38	64.3
June	67.7	11.02	53.1	50.8	11.85	12.3	106.4	11.95	107.7	June	16.5	3.16	12.2	12.7	3.25	2.9	22.9	11.95	25.9
July	67.8	10.77	63.3	49.6	11.51	11.2	112.0	9.88	137.0	July	17.1	3.13	14.9	11.4	2.80	2.9	28.9	2.84	29.2
Aug.	125.4	10.41	122.2	41.8	10.57	41.0	500.2	19.68	280.2	Aug.	30.8	2.91	35.5	10.6	2.58	9.8	95.4	4.39	82.1
Sept.	65.2	10.48	114.1	44.6	10.24	46.2	146.0	13.63	237.6	Sept.	17.1	2.43	34.1	8.8	2.56	7.3	35.3	3.15	75.7
Oct.	51.7	9.65	110.4	32.8	7.05	19.5	126.0	13.36	253.3	Oct.	11.5	2.55	29.4	6.4	1.68	4.4	29.2	4.63	62.3
Nov.	21.6	8.80	70.7	14.1	5.47	12.6	89.8	18.04	201.2	Nov.	5.9	2.35	21.1	2.8	1.26	2.9	14.3	4.53	49.6
Dec.	19.1	9.21	56.9	11.8	3.99	11.5	44.1	17.63	149.6	Dec.	3.4	2.09	14.9	2.2	1.00	3.0	9.5	4.67	39.1
Year	41.5	8.38	67.9	30.0	7.56	13.6	97.5	11.29	149.0	Year	11.0	2.27	18.8	6.7	1.94	3.3	26.9	3.18	46.6
Winter	14.8	8.05	46.2	11.1	5.02	9.9	58.2	13.68	122.3	Winter	4.4	1.87	13.1	2.4	1.25	3.0	11.6	3.75	34.6
Equinox	46.3	9.94	85.4	37.8	8.39	20.1	123.6	13.46	190.9	Equinox	12.0	2.50	23.5	8.4	2.13	4.0	28.3	3.73	56.8
Summer	68.1	10.07	75.2	48.2	11.18	16.3	174.8	12.47	170.2	Summer	19.3	2.98	20.2	11.1	2.78	4.1	44.1	3.12	48.8

NON-CYCLIC CHANGE

57 LERWICK										1943									
	All days			Quiet days			Disturbed days				All days			Quiet days			Disturbed days		
	H	D	V	H	D	V	H	D	V		H	D	V	H	D	V	H	D	V
	γ	γ	γ	γ	γ	γ	γ	γ	γ		γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	-0.3	-0.06	-0.1	+5.2	+0.31	+0.3	-11.8	+1.00	+43.2		-0.3	-0.06	-0.1	+5.2	+0.31	+0.3	-11.8	+1.00	+43.2
Feb.	+0.4	+0.03	+0.4	+3.7	+0.15	+2.0	-16.8	-1.89	+4.6		+0.4	+0.03	+0.4	+3.7	+0.15	+2.0	-16.8	-1.89	+4.6
Mar.	-0.6	-0.07	-2.0	+0.6	-1.54	-6.2	0.0	+2.18	+60.7		-0.6	-0.07	-2.0	+0.6	-1.54	-6.2	0.0	+2.18	+60.7
Apr.	+0.3	-0.10	+0.4	+4.7	-0.62	-0.2	+19.9	+4.93	+6.5		+0.3	-0.10	+0.4	+4.7	-0.62	-0.2	+19.9	+4.93	+6.5
May	+1.0	+0.01	+0.8	+3.6	+0.26	+3.3	-27.2	-1.86	-13.0		+1.0	+0.01	+0.8	+3.6	+0.26	+3.3	-27.2	-1.86	-13.0
June	-0.4	+0.02	+0.7	+2.1	+0.61	-0.2	+2.5	+2.21	+8.9		-0.4	+0.02	+0.7	+2.1	+0.61	-0.2	+2.5	+2.21	+8.9
July	-0.9	+0.10	-1.6	+5.8	+0.25	+2.8	+3.2	+0.28	-0.1		-0.9	+0.10	-1.6	+5.8	+0.25	+2.8	+3.2	+0.28	-0.1
Aug.	-4.3	0.00	-2.6	+7.2	+1.49	+5.7	-179.4	-5.98	-57.4		-4.3	0.00	-2.6	+7.2	+1.49	+5.7	-179.4	-5.98	-57.4
Sept.	+1.6	-0.57	-0.9	-1.6	+2.31	-7.3	+13.3	-3.29	+5.9		+1.6	-0.57	-0.9	-1.6	+2.31	-7.3	+13.3	-3.29	+5.9
Oct.	+3.1	+0.31	+4.1	+3.9	+0.01	-0.8	+5.6	+3.76	+2.4		+3.1	+0.31	+4.1	+3.9	+0.01	-0.8	+5.6	+3.76	+2.4
Nov.	-0.2	-0.01	+1.2	+3.9	-0.02	+1.7	-11.1	-0.69	-23.8		-0.2	-0.01	+1.2	+3.9	-0.02	+1.7	-11.1	-0.69	-23.8
Dec.	-0.9	-0.38	-2.5	+0.1	+0.62	+0.8	-7.0	+2.66	-26.1		-0.9	-0.38	-2.5	+0.1	+0.62	+0.8	-7.0	+2.66	-26.1
Year	-0.1	-0.06	-0.2	+3.3	+0.32	+0.2	-17.4	+0.28	+1.0		-0.1	-0.06	-0.2	+3.3	+0.32	+0.2	-17.4	+0.28	+1.0
Winter	-0.3	-0.11	-0.3	+3.2	+0.27	+1.2	-11.7	+0.27	-0.5		-0.3	-0.11	-0.3	+3.2	+0.27	+1.2	-11.7	+0.27	-0.5
Equinox	+1.1	-0.11	+0.4	+1.9	+0.04	+3.6	+9.7	+1.89	+18.9		+1.1	-0.11	+0.4	+1.9	+0.04	+3.6	+9.7	+1.89	+18.9
Summer	-1.1	+0.03	-0.7	+4.7	+0.65	+2.9	-50.2	-1.34	-15.4		-1.1	+0.03	-0.7	+4.7	+0.65	+2.9	-50.2	-1.34	-15.4

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

MEAN MONTHLY AND ANNUAL VALUES OF TERRESTRIAL MAGNETIC ELEMENTS

For all, a quiet, q and disturbed, d, days for H, D and V and for all days for N, W, I and T

58	LERWICK										1943			
	Horizontal force			Declination (west)			Vertical force			North component all days	West component all days	Inclination (north) all days	Total force all days	
	a	q	d	a	q	d	a	q	d					
	14,000γ +			11° +			46,000γ +							
	γ	γ	γ	°	°	°	γ	γ	γ	γ	γ	°	°	
Jan.	379	385	373	47.9	48.2	46.9	915	911	923	14075	2940	72	57.6	
Feb.	381	383	377	47.5	47.7	47.0	914	914	917	14078	2939	72	57.5	
Mar.	374	380	355	46.7	47.0	45.2	914	916	900	14071	2934	72	57.9	
Apr.	374	383	349	45.7	45.8	45.4	910	918	892	14072	2930	72	57.8	
May	376	382	353	45.2	45.3	45.2	910	917	885	14075	2928	72	57.7	
June	383	388	379	44.5	44.1	45.0	915	918	917	14082	2927	72	57.3	
July	383	384	380	43.7	43.4	43.8	918	919	913	14083	2924	72	57.4	
Aug.	360	371	325	42.5	42.7	41.4	914	923	897	14061	2914	72	58.9	
Sept.	362	373	350	41.2	41.6	40.6	919	927	915	14063	2911	72	58.8	
Oct.	365	377	353	40.0	40.8	40.3	924	932	912	14068	2905	72	58.7	
Nov.	370	381	355	39.0	39.5	38.4	932	934	926	14074	2902	72	58.6	
Dec.	373	379	363	38.5	39.1	37.6	938	935	940	14077	2900	72	58.5	
Year	373	381	359	43.5	43.8	43.1	919	922	912	14073	2921	72	58.1	

59 LERWICK

1943

Night commencing			Night commencing			Night commencing		
JANUARY			FEBRUARY (contd.)			APRIL (contd.)		
1	△	Variable cloud. Weak diffuse aurora from 20h.	25	△	Mainly overcast. Diffuse aurora behind cloud	28	b	.. Mainly fine, twilight
2	△	Variable cloud. Weak diffuse aurora 17h.50m. and 21h.	28	ca-a-ca ..	Variable cloud	29	b	△ Partly cloudy. Twilight. Moderate homogeneous arc 22h.40m.
3	△	Mainly fine until 20h. then cloudy. Moderate diffuse aurora 19h. Bright homogeneous arc 22h. becoming rayed 22h.25m. Narrow moderate homogeneous arc 2h.45m.				30	b	.. Fine. Twilight
4	a	△ Mainly fine becoming partly cloudy 20h. Weak diffuse aurora 19h. to 21h.45m.	2	△	Mainly cloudy. Weak glow 20h.30m. to 21h.	AUGUST		
5	a	△ Mainly fine. Weak homogeneous arc and diffuse aurora 17h.30m., arc becoming rayed 19h.30m.	3	a	△ Mainly fine, becoming partly cloudy 20h. Faint diffuse aurora from 19h.20m.	8	△	Partly cloudy, becoming cloudy. Moonlight. Diffuse aurora 23h.15m., with bright rayed arc developing 23h.30m. Flaming aurora 23h.45m. and homogeneous bands 24h.
6	a-ca	.. Mainly fine, cloudy after 20h.	6	ca	.. Mainly cloudy	28	a	△ Fine. Rays and curtains from 21h.25m. with moderate rayed arc 21h.30m.
7	ca	.. Variable cloud	7	a	△ Overcast until 21h. then partly cloudy. Faint diffuse aurora developing into rayed arc 22h.30m., homogeneous arc 23h.	30	△	Cloudy. Some rays and pulsating aurora 0h.25m.
8	a	△ Fine, becoming cloudy 22h. Weak diffuse aurora 18h.10m., weak homogeneous arc 21h., becoming double 21h.20m. to 21h.40m.	8	△	Variable cloud. Weak diffuse aurora 20h.40m.	SEPTEMBER		
14	cb	.. Variable cloud. Moonlight	10	b	△ Partly cloudy. Moonlight. Weak diffuse aurora 19h.	2	a	△ Partly cloudy, becoming fine 21h. Moderate to bright display from 21h.15m. to 23h.15m., commencing with homogeneous arc. Draperies at 22h.1m. and double homogeneous arc 22h.9m. becoming rayed
15	cb-b	.. Variable cloud, becoming fine 20h. Moonlight	11	b	△ Partly cloudy until 19h., then mainly fine. Moonlight. Moderate to bright rayed and homogeneous arcs, occasional bands and curtains 20h.10m. to 22h.	3	a	△ Fine. Homogeneous bands and arc from 21h.8m.
17	△	Mainly overcast, cloud clearing temporarily between 19h. and 20h. Part of homogeneous arc of moderate intensity 19h. Bright rayed bands 19h.15m. Weak glow 19h.30m.	12	b	△ Partly cloudy. Moonlight. Diffuse aurora, occasional rays 20h.30m.	5	△	Cloudy. Faint diffuse aurora 21h.45m. to 22h.15m.
18	cb-b	.. Variable cloud. Bright moonlight	13	cb	.. Variable cloud. Moonlight	6	△	Partly cloudy, becoming cloudy 22h. Faint diffuse aurora 22h.
19	cb-b	.. Variable cloud, becoming fine 21h. Bright moonlight	14	cb-c	.. Cloudy, becoming overcast 21h. Moonlight	7	△	Partly cloudy, becoming cloudy 22h. Faint diffuse aurora 21h.30m.
23	cb-c	.. Variable cloud, becoming cloudy 20h. Bright moonlight	15	cb-b	.. Partly cloudy, becoming mainly fine 21h. Moonlight	8	△	Cloudy. Weak diffuse aurora in breaks 21h.30m.
25	cb-b	.. Cloudy, becoming fine 21h. Bright moonlight	16	cb	.. Variable cloud. Bright moonlight	9	ca-c	.. Cloudy, overcast at 21h.
26	cb	.. Variable cloud. Moonlight	17	cb	.. Mainly cloudy. Bright moonlight	11	cb	.. Partly cloudy. Moonlight
28	△	Variable sky, becoming cloudy 21h. Weak homogeneous arc from 18h.45m.	21	cb-b	.. Cloudy until 22h., then fine. Bright moonlight	12	cb	.. Cloudy. Moonlight
29	a	△ Mainly fine after 18h. Weak diffuse aurora 18h.20m. to 22h.	23	cb	.. Partly cloudy. Moonlight	14	cb	.. Cloudy. Moonlight
			24	a	.. Fine	15	cb-c	.. Cloudy, becoming overcast 22h. Moonlight
			25	cb-b	.. Partly cloudy. Faint diffuse aurora 21h.	17	△	Cloudy. Moonlight. Faint diffuse aurora in breaks
			28	ca	.. Variable cloud	20	△	Cloudy. Bright moonlight. Diffuse aurora in breaks
			29	a	△ Partly cloudy. Bright active display 20h.20m. to 23h.28m. Most types aurora seen including coronae and flaming aurora	21	△	Variable cloud. Bright moonlight Diffuse aurora in breaks
FEBRUARY			30	△	Mainly cloudy. Moderate diffuse aurora 21h.30m.	24	cb-c	.. Cloudy, becoming overcast 22h. Moonlight
1	△	Mainly cloudy. Weak diffuse aurora from 21h.10m.	31	△	Variable cloud, becoming fine. Weak diffuse aurora 21h.30m.	25	△	Cloudy, becoming overcast 22h. Weak diffuse aurora 21h.30m.
2	△	Variable cloud. Weak diffuse aurora in cloud breaks, from 19h.30m.				26	a	△ Variable cloud, becoming fine 20h. Arc and rays 20h.23m. to 23h.30m.
3	a	△ Mainly fine. Weak to moderate diffuse aurora 18h., moderate rayed arc and curtains 22h.50m. to 23h.				29	△	Variable cloud. Faint diffuse aurora in breaks
4	△	Cirrus cloud until 20h., cloud then thickening. Moderate diffuse aurora from 17h.45m.	APRIL			OCTOBER		
5	△	Partly cloudy, overcast 20h. Diffuse aurora behind cloud from 17h.30m.	1	△	Partly cloudy, fine after 22h. Weak diffuse aurora 20h.30m. to 21h.20m.	2	a	△ Partly cloudy. Weak diffuse aurora most of evening
6	△	Mainly cloudy. Weak diffuse aurora from 21h.10m.	2	ca	.. Partly cloudy	3	ca	.. Variable cloud
9	cb-b-cb	.. Variable cloud. Moonlight	5	△	Variable cloud. Diffuse aurora 21h.	4	a	△ Partly cloudy, becoming fine 21h. Weak diffuse aurora 20h., moderate homogeneous arc 21h.
10	b	.. Fine. Moonlight	8	cb-b	.. Variable cloud, becoming fine 22h. Moonlight	6	cb-c	.. Partly cloudy, becoming overcast 22h. Moonlight
12	cb	.. Partly cloudy. Moonlight	10	c-cb	.. Mainly cloudy. Moonlight	11	c-cb	.. Overcast until 21h., then cloud decreasing. Moonlight
15	cb-c	.. Variable cloud until 20h., then cloudy. Bright moonlight	11	cb	.. Mainly cloudy. Moonlight	13	b	.. Fine. Bright moonlight
16	cb	.. Mainly cloudy. Bright moonlight	15	cb-b	.. Partly cloudy, fine after 22h. Bright moonlight	16	cb	.. Mainly cloudy. Bright moonlight
17	cb-b	.. Variable cloud. Bright moonlight	17	cb	.. Partly cloudy. Bright moonlight	17	cb	.. Mainly cloudy. Bright moonlight
18	cb	.. Mainly cloudy. Bright moonlight	18	b	.. Mainly fine. Bright moonlight			
19	cb-b	.. Variable cloud. Moonlight	19	cb	.. Variable cloud. Bright moonlight			
22	b	△ Partly cloudy. Moonlight	21	b	.. Fine. Moonlight			
24	△	Cloudy until 20h. and after 22h. Weak glow becoming homogeneous arc 20h.20m. Rays at 21h.20m.	24	a	.. Fine			
			25	ca-a	.. Partly cloudy until 22h. then fine			
			26	△	Variable cloud. Twilight. Moderate diffuse aurora, with few rays 22h.			
			27	cb-b	.. Partly cloudy, becoming fine 22h. Twilight			

59 LERWICK (contd.)

1943

Night commencing		Night commencing		Night commencing	
	OCTOBER (contd.)		NOVEMBER (contd.)		DECEMBER
20	△ Partly cloudy, becoming overcast 21h. Weak to moderate diffuse aurora from 18h.	10 b ..	Partly cloudy. Bright moonlight	6 cb-c ..	Partly cloudy, becoming fine 21h. Moonlight
22 ca ..	Partly cloudy	12 cb ..	Mainly cloudy. Moonlight	7 cb ..	Variable cloud. Moonlight
24	△ Mainly cloudy, becoming overcast 20h.45m. Weak diffuse aurora 18h.40m.	14 cb ..	Mainly cloudy. Moonlight	8 cb ..	Mainly cloudy. Moonlight
		15 cb ..	Mainly cloudy. Moonlight	9 b-cb ..	Fine until 19h., then cloudy. Bright moonlight
25 ca-c ..	Partly cloudy, becoming overcast 20h.	16 cb-b ..	Cloudy, becoming partly cloudy. Moonlight	10 b ..	Mainly fine. Bright moonlight
		17 b ..	Mainly fine. Moonlight.	11 b-cb ..	Cloud increasing. Moonlight
		18 cb ..	Mainly cloudy. Moonlight Aurora suspected behind cloud	12 b-cb ..	Cloud increasing. Moonlight
		21 ca-c ..	Partly cloudy until 19h., then mainly cloudy.	14 b ..	Mainly fine. Moonlight
		22 a △	Partly cloudy. Weak diffuse aurora with occasional rays 20h.50m. to 21h.	15 cb ..	Mainly cloudy. Moonlight
		23 c ..	Mainly overcast. Aurora suspected	18	△ Mainly cloudy. Faint diffuse aurora 19h.
5 b	△ Partly cloudy, fine 21h. Moonlight. Weak glow from dusk, rayed arc 20h.30m. to 20h.45m. followed by weak diffuse aurora	24	△ Variable cloud. Weak diffuse aurora from 19h.	19	△ Partly cloudy. Weak diffuse aurora from 18h.30m.
6 b	△ Partly cloudy. Moonlight. Weak diffuse aurora 19h., then moderate rayed arc 20h.5m. to 20h.10m.	25	△ Variable cloud. Diffuse aurora 17h. with double homogeneous arc 21h.30m.	20	△ Variable cloud. Weak diffuse aurora all the evening
7 b ..	Mainly fine. Moonlight	26 ca ..	Mainly cloudy	22 ca-c ..	Cloud increasing
8 b ..	Partly cloudy, fine at 20h. Bright moonlight	28	△ Variable cloud. Faint glow from dusk till 21h.	23 c-ca-c ..	Variable cloud
		30 a ..	Fine	25 ca ..	Variable cloud
				26 c-ca-c ..	Variable cloud
				27 ca ..	Partly cloudy
				28 ca ..	Variable cloud
				29 ca ..	Variable cloud
				30 ca-a ..	Variable cloud, becoming partly cloudy 19h.

In the interests of brevity there have been omitted from Table 59 all dates on which the sky throughout the evening remained completely overcast and on which, therefore, no opportunity arose of determining whether or not aurora occurred. The nights on which aurora was actually seen are indicated by the symbol △. The nights on which aurora was not seen, despite at least an occasional interval of more or less clear sky, are indicated by the symbol ..; in the latter case also, remarks on the weather are added to assist the reader in judging how far the fact of no observation of aurora may be taken as indicating that there was not actual aurora.

The letters a, b, c, have the following significance:-

- a = Conditions favourable for seeing aurora
 - b = Unfavourable for faint aurora (moonlight, mist, Cs, etc.)
but not such as to mask bright aurora
 - c = Cloudy, but aurora not seen in clear intervals
 - ca, cb = Have been used for "Cloudy, with conditions a or b in the intervals"
- Changing conditions have been indicated by a hyphen, e.g., a-c

1943

For brevity, stations which figure frequently in the above table are represented by their initials, namely A - Aberdeen, B - Baltasound, D - Deerness, E - Eskdalemuir, G.C. - Gordon Castle, K - Kirkwall.

ABERDEEN

ABERDEEN OBSERVATORY

Latitude 57°10'N.
Longitude 2°06'W.
G.M.T. of Local Mean Noon 12h. 8m.

Heights of instruments	above M.S.L. m.	above ground m.
Barometer	26·0	..
Thermometer bulbs, north-wall screen	..	12·5
Rain-gauge site	24·1	..
Beckley rain-gauge rim	..	0·6
Sunshine recorder	..	20·7
Pressure-tube anemograph	37	13
Robinson cup anemograph	36	23

INTRODUCTION

A description of the site and instruments is given in the *Observatories' Year Book* for 1938, and no noteworthy changes have occurred.

REVIEW OF THE METEOROLOGICAL RESULTS

The mean temperature for the year was 282·0°A., a little higher than the normal. The extremes recorded in the north-wall screen were 295·3°A. on July 31 and 265·6°A. on January 5. The lowest reading of the grass minimum thermometer was 262·6°A. on December 14.

The total rainfall for the year was 672 mm.; 76 mm. less than the normal.

The sunshine total, 1344 hr., was a little above the normal.

The highest wind speed recorded in a gust was 36·9 m./sec. on February 15.

The results of the harmonic analysis of the diurnal inequalities of pressure are set out in the accompanying table. Average values of the various coefficients for the period 1871-1926 computed by Dr. A. Crichton Mitchell* are given for comparison. Dr. Mitchell gave the phase angles in local apparent time and in volumes of the *Observatories' Year Book* earlier than 1935 they were so quoted; the angles have now been converted to local mean time.

* MITCHELL, A. CRICHTON: Diurnal variation of pressure and temperature at Aberdeen 1871-1926. *Quart. J.R. met. Soc., London*, 55, 1929, p.197.

HARMONIC COMPONENTS OF THE DIURNAL INEQUALITY OF ATMOSPHERIC PRESSURE
ABERDEEN, LONGITUDE $2^{\circ}06'W$.

Values of c_n , α_n in the series $\sum c_n \sin(15nt + \alpha_n)$, t being local mean time reckoned in hours from midnight

	c_1		α_1		c_2		α_2		c_3		α_3		c_4		α_4	
	1943	1871-1926	1943	1871-1926	1943	1871-1926	1943	1871-1926	1943	1871-1926	1943	1871-1926	1943	1871-1926	1943	1871-1926
	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°
January	0.58	0.09	86	169	0.27	0.23	163	146	0.15	0.13	347	348	0.07	0.05	161	211
February	0.54	0.16	208	173	0.36	0.27	163	143	0.08	0.10	355	346	0.04	0.03	87	84
March	0.18	0.16	58	156	0.41	0.29	151	147	0.06	0.05	346	330	0.05	0.03	5	27
April	0.40	0.15	198	155	0.37	0.28	173	151	0.07	0.02	212	188	0.04	0.04	12	359
May	0.08	0.10	28	136	0.26	0.24	153	145	0.07	0.06	169	166	0.03	0.02	319	333
June	0.02	0.06	65	104	0.18	0.22	137	141	0.05	0.07	142	155	0.01	0.01	291	331
July	0.36	0.09	124	135	0.21	0.21	134	142	0.06	0.07	151	155	0.03	0.01	300	339
August	0.11	0.11	355	161	0.19	0.23	145	144	0.05	0.04	165	165	0.02	0.03	37	333
September	0.39	0.12	253	147	0.26	0.29	153	151	0.03	0.03	313	346	0.06	0.05	357	345
October	0.31	0.15	45	187	0.18	0.27	164	156	0.05	0.07	6	0	0.02	0.03	36	34
November	0.09	0.13	159	201	0.34	0.23	161	159	0.09	0.10	2	4	0.01	0.01	147	186
December	0.19	0.16	288	169	0.16	0.21	153	147	0.13	0.12	337	357	0.06	0.05	211	205
Arithmetic mean	0.27				0.27				0.07				0.04			
Year	0.06	0.12	148	162	0.26	0.25	156	148	0.02	0.03	347	359	0.00	0.01	6	338
Winter	0.12	0.13	159	178	0.28	0.23	161	149	0.11	0.11	348	353	0.03	0.03	165	194
Equinox	0.05	0.14	213	162	0.30	0.28	160	151	0.02	0.03	314	345	0.04	0.04	7	6
Summer	0.09	0.09	92	139	0.21	0.22	143	143	0.06	0.06	157	159	0.02	0.02	324	334

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

PRESSURE AT STATION LEVEL

Maximum, Minimum and daily mean values in millibars for each day 0h. to 24h., G.M.T.
The initial 9 or 10 of the values is omitted, i.e. 1005.61 is printed 05.61

61 ABERDEEN: h_b (height of barometer cistern above M.S.L.) = 26.0 m.

1943

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	<i>millibars</i>																	
1	99.2	85.8	91.0	82.6	71.2	76.0	32.7	23.5	27.6	17.3	95.4	06.5	23.3	14.5	20.4	02.6	91.1	95.1
2	03.6	93.8	96.7	95.4	82.6	89.7	31.6	21.8	26.7	22.4	17.3	20.1	23.8	19.1	21.0	97.2	90.0	92.4
3	11.6	03.6	09.6	03.8	95.4	99.1	34.5	30.2	32.7	24.0	20.1	22.7	29.2	23.8	27.2	11.5	97.2	05.2
4	10.8	08.4	09.3	13.4	03.8	10.3	30.2	18.8	22.8	22.1	09.4	15.3	28.8	16.4	23.8	12.6	07.1	10.5
5	08.9	07.1	08.0	08.4	80.1	98.0	27.0	19.8	24.2	09.4	87.0	94.9	16.4	06.7	10.9	15.1	06.3	09.7
6	13.2	06.6	09.1	09.5	73.6	92.5	29.0	25.2	27.8	14.0	94.0	06.5	06.7	94.5	00.8	20.4	15.1	18.3
7	15.4	13.2	14.5	21.5	09.5	17.9	27.7	15.8	24.2	20.1	89.6	05.4	94.5	90.4	92.0	20.0	10.4	15.2
8	15.9	14.3	15.0	18.0	84.1	02.9	15.8	01.9	06.7	20.8	10.1	15.4	90.4	76.2	82.0	13.1	09.8	11.1
9	14.7	02.8	10.0	92.0	80.7	86.1	14.5	06.2	10.9	13.6	09.3	11.8	86.5	77.0	82.6	15.2	13.1	14.3
10	02.8	98.4	00.5	00.9	92.0	96.1	06.2	96.2	99.9	12.7	10.9	11.9	89.1	83.3	85.6	15.7	14.5	15.0
11	98.4	82.1	88.9	01.0	96.6	98.9	13.5	98.8	04.6	13.9	11.1	12.3	08.2	89.1	99.3	15.0	08.0	11.7
12	82.1	75.7	77.9	99.6	88.1	92.9	18.7	13.5	16.7	13.6	09.0	10.9	10.3	00.5	05.4	09.5	06.8	07.7
13	82.2	78.9	80.8	12.6	99.6	06.2	16.9	14.2	15.5	13.4	06.6	11.2	12.7	08.8	11.0	09.4	05.4	07.3
14	91.9	81.3	85.3	01.0	88.2	97.8	15.1	09.2	12.5	07.4	04.2	06.2	25.7	09.3	17.6	05.4	02.5	03.6
15	01.4	91.9	97.1	06.0	86.6	91.6	09.2	99.8	03.8	18.6	04.7	11.5	35.3	25.7	30.7	04.3	01.4	02.5
16	02.5	99.2	01.1	31.2	06.0	23.6	10.3	06.8	08.2	22.9	16.3	20.6	35.0	31.8	33.4	10.7	04.1	07.3
17	99.2	89.3	93.6	29.2	20.4	23.3	21.9	10.3	16.0	16.3	03.0	08.4	33.4	30.1	31.7	14.2	10.7	12.7
18	07.5	97.3	04.4	29.2	21.7	25.8	24.8	21.9	23.5	05.3	92.5	97.5	30.5	25.2	28.5	13.4	96.4	04.1
19	07.3	03.5	05.8	27.6	17.6	21.4	24.4	19.8	21.9	07.2	96.8	00.4	25.2	15.4	19.7	99.9	96.4	98.3
20	03.5	92.7	98.2	30.1	24.1	27.2	20.8	18.5	19.2	11.6	07.2	09.2	19.3	14.4	16.7	99.6	98.4	98.9
21	97.9	86.9	91.3	24.1	20.2	21.8	23.2	20.4	21.9	12.6	03.8	09.9	20.1	17.0	18.9	16.7	98.3	07.0
22	04.6	97.9	00.8	20.3	17.3	18.6	22.9	18.8	21.4	03.8	93.2	96.0	17.0	02.5	11.0	18.3	11.1	15.3
23	18.3	04.6	11.9	18.7	13.6	16.0	18.8	13.2	15.4	99.8	93.2	97.2	02.5	97.3	98.8	20.4	10.3	13.7
24	18.1	07.7	14.2	18.2	14.3	16.1	13.2	11.9	12.4	05.5	94.1	01.2	03.9	98.9	00.6	22.6	15.8	20.3
25	07.7	99.1	03.0	17.0	00.7	07.3	12.6	07.7	10.8	95.1	81.0	88.7	15.1	03.9	09.4	22.3	14.2	16.9
26	11.2	96.9	02.5	24.9	17.0	22.3	07.7	02.6	04.0	08.6	78.6	94.8	17.0	13.6	15.4	28.5	22.2	26.0
27	13.7	00.5	09.2	26.5	24.2	25.6	06.1	99.4	02.1	09.7	06.6	08.3	19.3	14.0	16.3	29.6	28.0	28.7
28	00.5	84.8	95.1	32.8	21.5	26.8	11.3	06.1	09.5	15.6	09.3	12.4	22.0	18.4	19.5	30.1	29.0	29.5
29	88.5	81.8	84.9				10.0	90.4	97.7	15.3	10.3	13.3	22.8	18.2	21.5	29.6	28.0	28.8
30	85.7	67.7	75.3				90.4	80.1	85.6	14.5	08.3	10.7	18.2	09.9	12.4	28.7	25.3	26.6
31	78.2	56.1	69.8				95.4	86.8	92.5				11.5	02.6	08.6			
Mean	02.79	93.87	98.54	14.13	01.81	08.27	17.30	09.99	13.51	12.90	02.43	07.71	15.93	08.02	12.03	15.05	08.90	11.79

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	millibars																	
1	25.4	23.6	24.3	02.6	95.3	97.8	10.6	03.3	06.1	06.2	94.4	00.6	16.9	10.7	13.0	16.0	02.5	12.3
2	23.9	21.7	23.0	09.2	95.0	02.0	12.9	02.8	06.4	11.9	97.6	06.9	20.5	16.8	19.1	08.3	95.4	98.9
3	21.7	14.1	18.5	14.8	09.2	12.5	20.1	12.9	17.2	12.2	99.6	05.8	27.8	20.1	23.6	23.3	08.3	18.6
4	14.1	06.8	09.6	14.4	09.6	12.5	20.1	09.0	16.2	02.3	93.5	98.2	28.9	23.8	27.2	22.8	20.5	21.7
5	10.4	04.5	08.0	09.6	06.0	06.9	09.0	99.9	02.5	02.3	83.7	91.5	23.9	10.9	16.6	21.5	20.1	20.9
6	04.5	00.7	01.7	12.1	06.1	08.8	03.4	96.3	98.6	02.5	83.1	90.3	11.9	05.1	08.1	20.8	18.3	19.3
7	04.2	00.6	02.1	11.9	98.7	07.6	08.4	03.4	06.8	17.3	02.5	12.2	15.2	11.8	13.9	19.3	15.0	17.3
8	06.8	03.2	05.0	98.7	95.2	96.7	17.0	08.4	13.0	16.7	11.3	13.8	14.3	08.7	10.6	19.6	15.1	18.1
9	06.8	02.2	04.2	13.4	96.9	07.4	20.7	17.0	19.1	17.8	13.6	16.7	17.5	14.0	15.8	22.4	19.2	20.6
10	07.2	02.0	05.7	13.3	07.7	10.0	20.2	18.8	19.4	17.6	14.6	15.9	15.6	02.7	10.9	28.0	22.4	25.3
11	02.0	91.9	95.5	11.2	07.5	09.4	19.3	15.8	17.7	17.4	12.8	15.2	17.0	01.9	11.6	30.4	28.0	30.0
12	96.0	90.4	92.0	11.0	05.7	09.9	15.8	10.7	13.4	16.9	07.6	11.6	01.9	95.2	99.0	34.6	30.3	32.5
13	06.8	90.8	98.0	05.7	89.3	95.2	10.7	96.1	04.0	16.2	13.0	15.1	95.2	85.3	88.0	35.0	27.4	31.1
14	08.4	02.7	06.8	05.4	93.9	01.1	01.6	93.0	96.2	15.7	13.5	14.8	00.2	86.0	94.5	34.8	27.2	31.0
15	03.9	97.8	00.1	12.3	05.4	09.4	05.0	98.0	02.4	13.6	07.2	11.2	13.1	00.2	08.2	34.7	26.0	30.4
16	20.4	03.9	13.1	22.5	11.9	16.2	10.8	98.5	06.7	07.2	97.1	01.9	16.9	12.8	14.5	26.0	13.0	21.4
17	21.7	19.4	20.8	22.5	16.7	20.7	12.5	09.2	10.7	97.1	86.4	92.6	22.0	13.6	18.0	13.0	99.8	05.5
18	19.4	14.9	16.6	16.7	03.1	07.1	14.4	10.3	12.6	00.7	93.2	97.9	30.7	22.9	27.2	00.9	72.0	92.1
19	15.1	13.1	14.0	06.5	04.8	05.6	10.3	97.8	05.7	99.6	84.6	94.2	30.4	27.0	28.7	83.2	70.9	74.5
20	19.5	14.3	16.4	05.2	95.1	99.9	03.3	97.7	00.1	91.5	84.6	89.4	27.5	23.3	25.8	94.1	83.2	89.9
21	21.9	19.1	20.5	00.1	94.2	97.4	13.7	03.0	08.1	91.9	88.9	89.8	23.3	11.9	17.4	93.8	79.7	85.1
22	21.9	20.2	21.1	97.4	96.0	96.8	14.3	06.6	12.0	00.4	91.2	95.7	11.9	02.2	04.9	91.9	80.0	86.2
23	20.7	16.9	18.8	10.2	97.0	03.9	06.6	02.4	05.0	03.2	98.7	00.0	02.2	69.5	89.2	07.7	91.9	98.4
24	16.9	14.0	15.2	12.7	10.2	11.9	06.1	02.7	05.1	09.0	03.2	06.6	80.8	61.1	68.3	22.3	07.7	17.5
25	14.1	05.8	09.8	11.1	00.2	05.0	09.6	03.5	06.8	09.2	06.0	08.3	98.8	80.8	90.7	24.8	14.4	19.4
26	06.3	04.0	05.0	03.5	02.3	02.8	14.7	08.7	11.2	06.0	02.9	04.3	05.0	98.5	02.5	25.2	20.8	22.5
27	13.7	06.3	09.5	07.4	03.1	05.3	15.4	98.1	11.0	12.0	04.6	07.7	04.3	92.9	00.5	27.2	21.3	24.5
28	17.2	13.7	15.0	07.1	04.6	06.1	13.3	97.1	08.2	15.6	11.6	13.7	91.2	83.2	87.9	27.5	19.1	24.3
29	20.9	17.2	19.3	07.8	93.2	03.2	10.5	04.8	07.2	19.5	15.6	18.1	92.7	90.0	91.2	19.1	14.3	15.9
30	20.4	15.5	18.3	08.9	92.2	97.9	07.8	01.2	05.2	18.7	10.8	14.8	15.1	92.7	07.2	24.4	14.8	20.4
31	15.5	02.6	08.2	14.2	08.9	12.5				11.3	08.1	09.3				24.3	08.6	18.6
Mean	13.80	08.19	10.84	09.66	01.77	05.79	11.94	04.23	08.49	09.02	01.15	05.29	12.42	02.52	07.80	18.61	09.26	14.33
								Annual		12.78	04.36	08.70						

PRESSURE AT STATION LEVEL

49

Monthly and annual means of hourly values in millibars at exact hours, G.M.T.

62 ABERDEEN: $h_b = 26$ m.

1943

	Hour G. M. T.																									Mean
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19.	20	21	22	23	24	
	<i>millibars</i>																									
Jan.	99.65	99.46	99.34	99.25	98.98	98.80	98.57	98.55	98.50	98.54	98.58	98.46	98.13	97.76	97.59	97.57	97.74	98.05	98.33	98.55	98.59	98.68	98.80	98.84	98.76	98.54
Feb.	07.11	06.95	06.79	06.55	06.61	06.83	07.11	07.38	07.80	08.12	08.49	08.70	08.65	08.57	08.62	08.62	08.78	09.02	09.20	09.50	09.57	09.53	09.40	09.41	09.29	08.27
Mar.	14.45	14.34	14.08	13.85	13.61	13.55	13.63	13.81	13.90	13.99	13.95	13.85	13.58	13.33	13.02	12.81	12.74	12.70	12.89	13.24	13.33	13.40	13.41	13.35	13.25	13.51
Apr.	07.39	07.04	06.85	06.73	06.76	06.86	07.23	07.43	07.53	07.72	07.88	07.88	07.89	07.93	07.86	07.83	07.79	07.91	08.06	08.35	08.64	08.57	08.35	08.24	08.03	07.71
May	12.38	12.25	12.13	12.00	11.94	11.97	12.14	12.24	12.32	12.29	12.25	12.23	12.08	11.98	11.86	11.81	11.63	11.59	11.62	11.80	12.00	12.15	12.18	12.12	12.00	12.03
June	11.57	11.51	11.45	11.34	11.34	11.39	11.54	11.60	11.78	11.82	11.86	11.85	11.88	11.84	11.82	11.82	11.78	11.76	11.76	11.91	12.06	12.24	12.31	12.35	12.33	11.79
July	11.67	11.50	11.25	11.04	10.83	10.74	10.67	10.72	10.77	10.69	10.69	10.66	10.63	10.63	10.66	10.62	10.55	10.60	10.59	10.75	10.92	11.11	11.14	11.10	10.93	10.84
Aug.	05.78	05.70	05.64	05.56	05.55	05.63	05.80	05.89	05.94	05.94	06.01	05.93	05.91	05.85	05.78	05.68	05.52	05.52	05.57	05.74	05.86	05.89	06.05	06.14	06.04	05.79
Sept.	08.31	08.23	08.08	08.03	07.95	08.05	08.24	08.48	08.75	08.93	08.99	08.98	08.99	08.94	08.75	08.57	08.42	08.40	08.40	08.55	08.62	08.48	08.33	08.27	08.14	08.49
Oct.	05.46	05.52	05.46	05.39	05.32	05.34	05.33	05.47	05.53	05.41	05.36	05.38	05.14	04.99	04.81	04.81	04.84	04.94	05.08	05.25	05.39	05.49	05.57	05.60	05.64	05.29
Nov.	07.90	07.76	07.59	07.45	07.42	07.33	07.47	07.64	07.91	08.03	08.14	08.10	07.90	07.66	07.55	07.48	07.48	07.68	07.91	08.04	08.13	08.14	08.23	08.14	08.03	07.80
Dec.	14.30	14.23	14.25	14.35	14.30	14.24	14.26	14.27	14.45	14.68	14.92	14.88	14.59	14.38	14.20	14.19	14.21	14.21	14.17	14.26	14.27	14.21	14.13	14.07	14.09	14.33
Annual	08.83	08.71	08.57	08.46	08.38	08.39	08.50	08.62	08.76	08.85	08.93	08.91	08.78	08.66	08.54	08.48	08.46	08.53	08.63	08.83	08.95	08.99	08.99	08.97	08.88	08.70

The initial 9 or 10 of the value is omitted, i.e. 1001.42 is printed 01.42

PRESSURE REDUCED TO MEAN SEA LEVEL

Monthly and annual means of hourly values in millibars at exact hours, G.M.T.

63 ABERDEEN: $h_b = 26$ m.

1943

	Hour G.M.T.																									
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	millibars																									
Jan.	02.87	02.68	02.55	02.47	02.20	02.02	01.79	01.77	01.72	01.75	01.80	01.67	01.33	00.96	00.78	00.77	00.94	01.26	01.54	01.77	01.80	01.89	02.01	02.06	01.97	01.75
Feb.	10.33	10.17	10.01	09.78	09.84	10.06	10.33	10.61	11.03	11.34	11.71	11.91	11.85	11.77	11.81	11.81	11.98	12.23	12.41	12.71	12.79	12.75	12.62	12.64	12.52	11.48
Mar.	17.69	17.58	17.33	17.09	16.85	16.80	16.87	17.05	17.14	17.21	17.16	17.06	16.79	16.53	16.22	16.01	15.95	15.91	16.10	16.47	16.56	16.63	16.65	16.58	16.49	16.73
Apr.	10.59	10.24	10.05	09.93	09.96	10.06	10.43	10.62	10.72	10.90	11.05	11.04	11.05	11.09	11.02	10.99	10.95	11.08	11.23	11.53	11.83	11.76	11.54	11.44	11.23	10.89
May	15.59	15.46	15.34	15.21	15.16	15.19	15.34	15.44	15.51	15.47	15.43	15.40	15.25	15.15	15.03	14.98	14.80	14.76	14.79	14.98	15.19	15.34	15.38	15.33	15.21	15.22
June	14.74	14.68	14.62	14.52	14.51	14.56	14.70	14.76	14.89	14.96	15.00	14.98	15.01	14.97	14.96	14.96	14.92	14.90	14.90	15.06	15.21	15.40	15.48	15.52	15.50	14.94
July	14.83	14.66	14.41	14.21	14.00	13.91	13.83	13.87	13.92	13.83	13.82	13.79	13.75	13.75	13.78	13.73	13.67	13.72	13.71	13.88	14.06	14.26	14.29	14.26	14.09	13.98
Aug.	08.93	08.85	08.79	08.71	08.71	08.79	08.95	09.03	09.07	09.07	09.14	09.05	09.02	08.96	08.90	08.79	08.64	08.64	08.69	08.86	09.00	09.03	09.20	09.28	09.19	08.93
Sept.	11.48	11.40	11.25	11.20	11.12	11.22	11.42	11.65	11.91	12.08	12.14	12.12	12.13	12.08	11.88	11.70	11.56	11.54	11.55	11.70	11.78	11.64	11.49	11.43	11.31	11.64
Oct.	08.63	08.69	08.64	08.57	08.50	08.52	08.51	08.65	08.70	08.57	08.52	08.53	08.28	08.13	07.95	07.95	07.98	08.08	08.23	08.40	08.55	08.65	08.74	08.77	08.81	08.45
Nov.	11.12	10.98	10.81	10.67	10.64	10.55	10.69	10.87	11.13	11.25	11.36	11.31	11.11	10.87	10.76	10.69	10.69	10.90	11.13	11.26	11.36	11.36	11.46	11.36	11.56	11.02
Dec.	17.56	17.49	17.51	17.61	17.56	17.50	17.52	17.54	17.72	17.94	18.18	18.13	17.83	17.63	17.44	17.43	17.45	17.45	17.42	17.51	17.52	17.46	17.38	17.32	17.34	17.58
Annual	12.03	11.91	11.77	11.66	11.59	11.60	11.70	11.82	11.95	12.03	12.11	12.08	11.95	11.82	11.71	11.65	11.63	11.71	11.81	12.01	12.14	12.18	12.19	12.17	12.08	11.88

The initial 9 or 10 of the value is omitted, i.e. 1001.42 is printed 01.42.

The monthly and annual values of pressure reduced to mean sea level are computed from the corresponding monthly and annual means of pressure at station level and of temperature. See General Introduction to the Meteorological Tables, 1938.

TEMPERATURE

Monthly and annual means of readings in degrees Absolute at exact hours, G.M.T.

64 ABERDEEN: North-wall screen on tower: $h_t = 12.5$ m.

1943

	Hour G. M. T.																									
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	degrees Absolute																									
Jan.	76.72	76.72	76.71	76.66	76.54	76.46	76.36	76.28	76.28	76.46	76.75	77.15	77.50	77.67	77.89	77.73	77.52	77.27	77.17	76.98	77.07	76.96	76.89	76.85	76.73	76.94
Feb.	78.46	78.55	78.40	78.26	78.16	78.17	78.07	77.90	77.97	78.70	79.44	79.95	80.76	81.26	81.40	81.33	80.95	80.24	79.81	79.46	79.13	78.97	78.87	78.69	78.54	79.29
Mar.	78.87	78.68	78.58	78.59	78.60	78.58	78.55	78.55	79.05	79.91	80.55	81.04	81.52	81.94	81.97	81.81	81.52	81.07	80.60	79.93	79.56	79.32	79.13	79.03	78.84	79.87
Apr.	80.61	80.41	80.39	80.42	80.37	80.27	80.34	80.98	81.78	82.50	83.07	83.71	84.08	84.34	84.15	83.97	83.85	83.49	82.99	82.31	81.86	81.48	81.09	80.78	80.64	82.05
May	80.94	80.72	80.58	80.49	80.33	80.48	81.12	82.06	82.73	83.18	83.53	83.95	84.16	84.21	84.26	84.16	84.16	84.04	83.80	83.35	82.74	82.10	81.79	81.55	81.04	82.53
June	84.19	83.84	83.75	83.45	83.44	83.94	84.74	85.62	86.09	86.59	86.98	87.30	87.49	87.34	87.29	86.95	87.03	86.92	86.60	86.17	85.64	85.08	84.74	84.55	84.26	85.65
July	84.65	84.41	84.21	84.04	83.92	84.32	84.98	85.79	86.49	87.10	87.52	88.00	88.19	88.55	88.60	88.65	88.66	88.34	87.93	87.45	86.66	85.90	85.47	85.12	84.78	86.46
Aug.	84.69	84.51	84.24	84.07	83.86	83.81	84.26	85.04	85.69	86.26	86.60	87.06	87.38	87.73	87.65	87.53	87.34	87.07	86.67	86.26	85.67	85.35	85.00	84.84	84.62	85.77
Sept.	83.96	83.60	83.47	83.32	83.11	83.04	83.03	83.69	84.35	85.07	85.72	86.31	86.74	86.71	86.87	86.83	86.55	86.13	85.61	84.97	84.60	84.38	84.16	84.12	83.89	84.85
Oct.	82.49	82.27	82.25	82.16	82.10	82.05	82.08	82.12	82.60	83.31	83.91	84.28	84.75	85.04	85.07	85.05	84.72	84.36	84.02	83.76	83.51	83.25	83.02	82.71	82.49	83.37
Nov.	78.59	78.62	78.50	78.51	78.43	78.54	78.53	78.54	78.65	78.87	79.20	79.61	79.95	80.12	80.07	79.86	79.56	79.13	78.90	78.68	78.68	78.50	78.32	78.50	78.40	78.95
Dec.	77.70	77.61	77.40	77.19	77.08	76.84	76.87	76.85	77.05	77.18	77.70	78.29	78.52	78.75	79.03	78.86	78.58	78.56	78.35	78.18	78.26	78.12	78.01	77.94	77.85	77.87
Annual	80.91	80.83	80.71	80.59	80.49	80.54	80.75	81.12	81.56	82.09	82.58	83.05	83.42	83.64	83.69	83.56	83.37	83.05	82.70	82.29	81.95	81.62	81.37	81.22	81.01	81.97

TEMPERATURE

Maximum, minimum and daily mean values in degrees Absolute for each day 0h. to 24h., G.M.T.
The initial 2 or 3 of the values is omitted, i.e. 275.0°. Add 0.16° to obtain temperature
in degrees Kelvin where $T(^{\circ}\text{K.}) = t(^{\circ}\text{C.}) + 273.16$

65 ABERDEEN: North-wall screen on tower: h_t (height of thermometer bulb above ground) = 12.5 m.

1943

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	<i>degrees Absolute</i>																	
1	76.2	73.9	75.2	79.6	75.2	77.4	89.0	78.6	83.3	82.0	74.7	79.1	84.3	78.5	81.4	86.9	81.9	83.8
2	74.9	71.8	74.0	80.8	74.4	77.1	84.6	78.0	82.2	87.9	78.2	82.8	83.4	78.4	81.3	86.5	82.5	84.1
3	74.8	71.4	73.3	80.0	73.9	76.2	79.0	76.0	77.9	88.5	79.8	84.4	85.6	78.7	81.9	87.7	82.5	84.4
4	75.0	68.2	72.2	79.5	74.0	76.5	79.1	75.9	78.1	86.2	80.5	83.5	88.0	79.9	83.9	84.3	82.3	83.2
5	76.4	65.6	70.3	81.2	76.5	79.3	83.3	75.3	80.6	85.3	75.1	80.5	85.0	79.7	81.6	83.7	80.9	82.4
6	77.4	75.9	76.8	82.2	74.3	77.0	85.1	79.8	81.8	77.8	73.5	75.8	83.2	78.2	80.5	83.1	80.5	81.9
7	78.0	74.5	76.4	75.0	72.4	73.9	82.6	75.4	79.4	83.4	75.1	78.1	82.1	73.9	78.1	88.0	81.4	85.2
8	75.0	70.7	72.6	79.1	74.3	77.0	81.9	76.4	79.1	86.0	75.1	79.7	79.6	75.6	78.0	92.9	84.0	88.1
9	77.5	74.1	76.2	79.9	76.3	78.0	83.8	76.0	80.5	89.4	81.0	84.4	80.1	73.8	76.9	89.3	82.1	85.6
10	78.5	75.1	77.0	79.7	75.7	77.3	87.5	79.4	83.2	86.4	82.1	84.0	79.0	73.2	76.6	86.3	83.8	84.8
11	79.8	78.1	79.0	86.2	76.7	82.1	80.6	74.4	77.3	87.0	80.1	83.3	85.0	75.2	80.9	90.7	84.5	87.0
12	80.2	79.2	79.8	84.2	74.3	79.6	80.9	72.8	76.6	86.4	79.4	83.4	86.8	79.8	83.1	90.3	83.6	87.0
13	79.9	77.0	78.4	82.8	74.8	78.4	81.7	74.7	78.0	89.2	83.0	85.7	85.3	82.2	83.7	90.2	82.6	86.0
14	77.2	72.3	75.1	85.8	82.1	83.8	84.6	76.5	79.9	90.3	83.7	86.4	89.9	81.8	86.8	88.4	81.8	84.4
15	77.6	72.2	74.7	82.7	74.0	77.3	81.8	76.5	78.9	85.3	78.5	82.5	87.6	79.5	83.9	87.9	80.2	84.6
16	78.4	72.8	76.2	77.8	74.2	76.3	85.8	75.6	80.8	85.2	77.0	81.5	89.6	79.7	85.1	86.7	78.2	83.9
17	79.9	76.3	78.4	85.3	75.8	81.6	87.2	81.0	83.1	88.1	81.1	85.0	89.0	81.8	84.6	88.6	82.4	85.5
18	79.9	72.5	76.9	83.0	79.7	81.3	81.5	78.1	79.8	90.8	79.4	85.3	84.4	80.3	82.7	87.0	83.9	85.5
19	79.2	72.6	76.5	86.9	78.8	82.3	79.2	78.2	78.8	84.6	77.5	80.6	84.3	80.7	82.3	92.5	84.8	88.2
20	80.1	78.9	79.5	82.6	75.9	79.2	79.3	78.7	79.0	84.7	77.3	81.3	89.5	80.1	84.7	90.7	84.6	87.3
21	80.3	76.0	79.1	84.0	78.0	80.8	80.1	78.8	79.3	85.2	80.1	82.5	86.5	80.8	83.2	90.7	83.4	87.0
22	78.3	74.6	76.4	85.1	77.9	81.2	80.2	77.8	79.0	86.1	79.5	82.6	85.8	80.3	82.5	88.2	81.4	85.4
23	79.0	75.0	77.1	85.0	78.8	81.6	80.6	78.6	79.5	84.9	80.0	82.6	84.0	81.7	83.1	90.7	84.0	86.6
24	81.1	74.7	78.1	83.2	79.3	81.0	80.2	78.4	79.2	86.1	77.0	81.7	87.7	82.1	84.1	88.6	83.4	86.3
25	81.0	78.8	79.9	83.6	76.6	79.4	80.1	78.4	79.1	84.0	78.8	81.5	85.0	80.9	83.4	91.6	85.0	87.9
26	82.3	78.9	80.2	83.6	75.7	79.7	81.0	78.6	79.7	84.5	78.8	81.4	83.2	78.2	81.6	90.2	84.5	86.5
27	81.0	76.8	79.4	87.8	78.6	83.3	85.1	78.7	80.9	85.3	77.5	81.1	91.9	82.1	87.5	88.7	84.3	86.2
28	82.6	80.8	81.4	85.7	78.0	81.3	85.1	77.7	81.3	82.8	77.4	80.2	91.0	82.8	86.5	88.7	84.0	87.0
29	81.5	77.9	79.6				83.6	78.1	80.7	81.9	75.4	79.3	85.0	81.2	83.2	91.8	82.7	87.5
30	80.2	76.8	79.0				84.2	76.1	79.8	84.0	79.0	81.2	88.0	81.7	83.5	89.1	84.0	86.1
31	78.2	74.6	76.4				81.9	77.2	79.3				85.1	79.4	81.9			
Mean	78.8	74.8	76.9	82.6	76.3	79.3	82.6	77.3	79.9	85.6	78.5	82.1	85.6	79.4	82.5	88.7	82.8	85.7

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	<i>degrees Absolute</i>																	
1	87.6	83.7	85.2	94.8	87.8	90.3	89.2	85.9	87.3	89.5	81.3	85.4	84.9	83.8	84.3	80.6	76.5	78.8
2	88.8	81.2	85.3	87.3	84.8	86.3	90.3	83.0	86.7	85.6	78.7	81.8	84.6	83.6	84.1	81.7	80.2	80.9
3	86.9	79.5	84.3	87.0	83.4	85.3	88.4	80.4	84.8	86.0	78.6	82.5	85.4	83.8	84.5	81.7	73.9	78.7
4	93.2	84.2	87.4	86.8	82.9	85.5	87.7	80.7	85.3	87.0	81.1	83.5	84.8	83.3	84.1	80.1	74.2	77.6
5	88.8	82.5	85.5	86.8	84.7	85.6	89.2	85.8	87.0	89.6	79.9	84.8	84.8	81.2	83.6	81.0	78.5	79.9
6	86.0	81.3	84.7	87.7	83.6	85.6	89.0	84.9	86.7	86.7	80.3	84.5	81.2	75.1	78.8	80.1	77.1	78.8
7	87.0	80.2	83.9	88.1	80.0	84.9	87.0	83.4	85.2	84.5	77.3	81.0	78.0	73.9	76.1	79.7	77.5	78.5
8	88.7	81.7	85.3	92.0	85.9	88.6	88.6	83.1	85.6	83.9	79.5	82.0	80.7	74.8	78.1	80.2	77.4	79.3
9	87.8	82.7	85.3	87.5	82.6	85.5	87.5	81.0	85.2	86.8	82.2	84.6	83.8	78.3	81.4	79.7	78.3	78.9
10	88.1	79.9	85.4	84.6	81.4	83.0	87.5	85.6	86.5	85.9	84.0	85.0	86.2	78.9	83.3	79.7	74.6	77.7
11	93.0	84.8	88.1	87.3	81.4	83.6	87.2	86.2	86.6	87.4	80.9	84.2	81.9	78.0	79.8	78.7	75.5	77.2
12	90.6	83.8	87.3	87.7	80.2	84.2	87.1	86.1	86.5	86.6	80.4	83.9	81.0	76.3	78.9	77.9	73.2	76.0
13	89.3	81.9	86.1	90.9	82.7	85.6	86.8	86.0	86.5	84.2	76.7	81.5	78.2	74.1	75.8	76.5	71.8	73.9
14	89.6	83.1	86.3	87.9	81.7	84.3	90.8	85.6	87.5	85.0	75.0	81.1	79.4	76.2	77.5	79.8	69.0	74.1
15	91.4	85.4	87.9	88.3	80.5	84.6	87.9	81.6	85.8	85.2	80.1	83.2	78.4	74.6	77.1	78.0	70.2	74.9
16	90.4	82.9	87.1	87.9	82.2	85.3	89.7	84.4	86.8	84.7	83.7	84.1	76.5	73.7	74.7	77.8	75.1	76.0
17	86.3	80.8	84.6	86.8	82.7	85.4	88.0	82.0	84.8	84.5	78.7	83.4	77.3	74.1	75.4	79.4	75.4	77.4
18	87.0	83.0	85.3	89.3	85.1	86.4	87.3	80.7	84.3	84.0	78.1	82.8	76.8	73.9	75.3	79.0	74.0	76.6
19	86.9	82.3	84.9	91.1	84.6	87.5	92.4	83.4	87.2	85.0	83.9	84.5	79.9	74.6	77.2	77.9	75.4	76.9
20	88.2	83.5	85.8	91.4	85.8	87.6	85.4	80.6	83.2	84.9	81.9	83.8	86.2	77.4	82.9	79.3	75.5	77.0
21	88.1	84.1	85.7	88.9	85.7	86.8	83.7	78.0	80.3	85.3	83.5	84.4	83.4	78.8	81.8	80.8	76.4	79.2
22	88.6	80.8	85.4	89.5	84.5	87.1	87.7	77.8	82.8	85.8	80.5	83.7	80.5	76.1	78.0	78.8	75.4	77.2
23	87.1	77.8	83.8	92.4	85.7	88.1	91.7	86.5	89.5	84.1	79.7	82.0	80.4	74.7	77.6	78.0	74.0	76.3
24	89.2	78.8	85.3	88.3	84.3	86.2	88.5	78.5	84.2	83.7	77.4	81.3	81.0	76.1	78.8	79.2	76.0	77.4
25	91.6	85.1	87.8	87.8	84.2	86.1	83.4	77.9	80.4	83.0	74.7	79.8	78.0	74.2	75.9	84.0	76.2	79.5
26	92.3	86.8	88.6	87.7	80.3	84.5	81.5	76.2	77.8	84.9	81.5	83.6	76.3	71.8	74.6	85.9	77.3	80.8
27	94.7	87.1	90.6	89.1	78.7	84.4	82.5	75.0	78.4	87.0	84.9	85.7	79.3	71.4	75.4	84.1	80.0	82.1
28	92.9	86.6	89.9	85.3	79.9	83.5	83.9	80.0	82.0	86.2	84.3	85.3	81.1	75.3	78.8	82.6	78.3	80.5
29	90.7	86.6	87.8	87.2	79.6	84.8	90.9	80.9	85.8	86.6	82.8	84.2	78.5	74.4	76.5	81.5	77.0	79.7
30	93.0	86.3	88.9	90.2	84.5	86.9	88.1	81.3	84.7	84.2	81.6	83.4	79.1	76.8	78.1	77.6	73.7	74.7
31	95.3	87.2	90.5	87.5	82.9	85.5				84.1	82.8	83.5				82.9	74.0	77.5
Mean	89.6	83.1	86.5	88.5	83.0	85.8	87.6	82.1	84.8	85.5	80.5	83.4	80.9	76.6	78.9	80.1	75.5	77.9

51

1943

* Mean of the column.

Monthly and annual means of values at exact hours, G.M.T.

1945

Monthly and annual means of values at exact hours, G.M.T., computed from corresponding mean values of temperature and relative humidity

1943

* Mean of values, 1, 2, ... 23, $\frac{1}{2}(0 + 24)$.

Amount in millimetres, duration in hours and maximum rate of fall for each day 0h. to 24h., G.M.T.

69 ABERDEEN: h_r (height of receiving surface above M.S.L.) = height of station above M.S.L. + height of receiving surface above ground = 24.1 m. + 0.6 m.

1943

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate
	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.
1	2.6	4.0	4	...	...	...	...	...	...	1.9	0.9	18	...	...	...	11.1	11.1	8
2	0.7	1.0	1	...	...	...	...	...	...	...	...	...	...	...	...	0.1	0.1	...
3	1.4	1.7	2	...	...	...	...	...	...	...	...	...	0.1	0.3	...	3.4	1.7	18
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2.2	5.4	1
5	1.0	0.4	4	7.6	4.6	6	...	...	...	2.9	0.6	44	2.1	3.6	2	0.1	0.2	...
6	4.9	4.7	24	4.1	4.9	4	...	...	...	4.7	4.5	7	1.2	0.6	2	...	...	...
7	0.7	0.5	15	0.2	0.5	...	...	...	...	3.3	3.3	11	16.6	7.6	(8)	...	...	...
8	...	...	...	1.1	2.0	1	...	...	...	0.3	0.7	...	28.2	13.5	9	...	...	...
9	0.5	1.7	2	1.0	1.4	1	...	...	...	...	...	...	18.9	7.1	13	...	...	...
10	8.0	6.8	4	...	...	...	...	...	...	...	...	...	...	...	...	0.1	0.2	...
11	4.0	5.9	5	1.6	2.8	2	...	...	...	4.9	5.0	4	...	...	...	...	...	...
12	6.7	11.0	6	4.2	2.3	17	...	...	...	0.8	1.6	1	0.2	0.4	(2)	0.1	0.2	...
13	2.5	2.8	4	0.1	0.1	...	...	...	...	1.8	1.0	6	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11.0	3.2	50
15	...	...	...	3.4	3.2	4	...	...	...	0.5	0.7	3	...	...	...	...	...	...
16	0.1	0.2	...	1.6	1.5	7	...	...	...	...	...	...	...	...	...	...	...	...
17	4.1	7.5	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7.1	9.5	(2)
19	...	...	...	...	...	...	...	...	...	0.2	0.1	7	...	...	...	0.4	0.5	(2)
20	2.4	2.5	5	...	...	...	...	...	...	...	...	...	0.3	1.2	(1)	0.1	0.3	...
21	14.7	9.1	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.7	0.6	8
23	2.2	1.3	5	...	...	...	...	...	...	0.5	0.3	2	22.7	20.8	10	16.4	2.7	69
24	...	...	...	...	...	...	...	...	...	9.1	5.4	9	7.6	9.9	13	...	...	...
25	0.7	1.8	...	1.0	0.4	19	1.1	1.0	2	2.5	2.7	7	...	...	...	3.1	0.8	38
26	0.1	0.1	...	...	...	...	10.2	8.7	4	0.4	0.4	7	0.5	0.8	(1)	...	...	...
27	1.3	1.3	2	...	...	...	1.0	0.1	30	2.4	0.4	46	...	...	...	...	...	...
28	1.7	2.8	2	0.2	0.3	3	0.2	0.2	1	0.1	0.1	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	5.7	3.7	12	...	...	...	2.6	1.0	29	8.7	7.4	47	4.3	3.8	5	...	...	...
31	8.9	6.7	7	...	...	...	1.0	0.5	16	...	...	...	0.1	...	...	...	...	...
Total	74.9	77.5	-	26.1	24.0	-	16.1	11.5	-	45.0	35.1	-	102.8	69.6	-	55.9	36.5	-

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate
	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.
1	...	...	...	10.7	2.4	42	2.6	2.1	2	2.2	1.2	20	14.3	13.5	12	...	...	...
2	...	...	...	8.6	4.7	11	...	...	...	...	...	...	1.4	2.4	9	4.0	6.7	(4)
3	...	...	...	0.3	0.7	...	...	...	...	0.7	0.6	1	0.2	...	...	0.5	0.8	(2)
4	3.5	2.9	18	0.7	0.9	1	...	...	...	0.1	0.1	...	...	...	...	0.3	1.1	...
5	1.1	0.5	5	...	...	...	5.3	6.3	4	6.1	5.0	3	8.5	8.8	3	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	3.2	2.0	6	1.7	3.6	(3)
7	0.3	0.2	(2)	5.9	5.7	6	4.8	3.6	3	...	...	...	...	...	...	0.5	0.9	(1)
8	...	...	...	...	...	...	...	...	...	0.8	0.9	4	0.4	0.3	(2)	1.1	2.7	7
9	0.6	1.0	7	0.4	0.3	7	...	...	...	...	...	...	0.4	0.2	(2)	0.1	0.1	...
10	...	...	...	17.2	8.9	20	...	...	...	...	...	...	4.3	0.9	55	1.0	0.6	15
11	10.4	4.1	20	1.2	0.3	27	...	...	...	0.7	1.0	2	0.8	0.5	3	...	...	...
12	0.5	0.2	14	1.2	1.5	6	...	...	...	0.6	0.7	2	0.6	0.4	3	...	...	...
13	1.3	1.4	15	7.4	7.6	(25)	18.2	4.9	57	0.7	1.1	(1)	5.0	3.4	8	...	...	...
14	2.3	1.1	18	0.2	0.2	1	9.0	5.1	(60)	...	...	...	5.1	4.2	17	...	...	...
15	3.9	4.4	16	2.0	0.4	31	0.3	0.2	(4)	...	...	...	5.0	2.7	9	...	...	...
16	...	...	...	...	...	...	...	...	...	0.3	0.9	(1)	0.2	0.4	...	...	...	...
17	...	...	...	...	...	...	...	...	...	4.0	2.3	6	4.4	2.0	5	0.2	0.5	(1)
18	...	...	...	6.2	5.4	33	...	...	...	3.6	0.3	45	0.2	0.1	(1)	5.7	2.7	7
19	...	...	...	3.4	3.3	3	0.6	0.3	7	6.6	2.6	15	1.9	3.3	(1)	0.8	0.4	6
20	...	...	...	4.7	5.4	9	3.4	1.0	25	1.1	1.3	2	0.3	0.4	...	...	...	...
21	...	...	...	9.8	3.3	14	0.6	0.6	2	2.0	2.5	(1)	0.1	0.2	...	4.5	3.5	(10)
22	...	...	...	0.2	0.4	...	2.4	1.3	11	...	...	...	...	...	...	0.3	0.5	(1)
23	...	...	...	7.7	2.9	30	...	...	...	10.3	9.5	27	1.6	2.5	(2)	...	...	...
24	...	...	...	3.2	1.5	20	...	...	...	0.9	2.6	(1)	2.7	2.2	5	...	...	...
25	...	...	...	10.9	4.4	(30)	...	...	...	...	...	...	2.1	1.6	(2)	...	...	...
26	...	...	...	...	...	...	1.3	0.8	10	0.5	0.5	(2)	...	...	...	...	...	...
27	...	...	...	...	...	...	24.9	6.4	16	...	...	...	...	...	...	1.3	1.9	8
28	0.1	0.2	...	...	...	...	10.1	5.5	(4)	...	...	...	3.0	4.3	(3)	...	...	...
29	...	...	...	2.4	2.2	80	...	...	...	...	...	...	...	...	...	0.3	0.2	(2)
30	...	...	...	0.9	0.6	6	...	...	...	...	...	...	3.1	1.6	23	1.1	1.2	(3)
31	0.5	1.6	2	0.2	0.8	...	...	...	...	2.7	2.3	7	...	...	...	1.7	2.2	6
Total	24.5	17.6	-	105.4	63.8	-	83.5	38.1	-	43.9	35.4	-	68.8	57.9	-	25.1	29.6	-

RAINFALL

53

Monthly and annual totals of amounts in sixty-minute periods between exact hours, G.M.T.

70 ABERDEEN: $h_r = 24.1$ m. + 0.6 m.

1943

	Hour G.M.T.																								0-24
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
	<i>millimetres</i>																								
Jan.	1.9	2.1	3.6	2.4	3.3	1.7	4.8	5.1	5.1	3.1	4.4	5.1	8.3	5.0	4.2	2.1	3.4	0.9	0.4	0.7	2.5	2.6	0.9	1.3	74.9
Feb.	1.6	0.3	...	0.7	2.6	1.3	3.4	0.7	...	0.2	1.1	...	...	0.6	0.5	0.7	0.3	...	0.5	2.1	2.8	2.0	1.4	3.3	26.1
Mar.	1.4	1.2	1.1	1.3	1.6	1.3	0.7	0.1	0.4	0.9	0.2	0.2	...	...	1.6	0.6	...	0.1	2.2	...	...	...	0.1	1.1	16.1
Apr.	4.6	2.7	3.3	3.1	3.0	1.4	2.0	1.9	0.6	0.6	0.8	0.7	1.7	4.7	2.7	1.5	1.9	2.7	0.4	...	0.5	0.2	1.1	2.9	45.0
May	6.3	7.0	9.5	6.3	7.3	7.1	3.7	1.3	0.8	2.0	4.1	4.9	5.7	3.4	2.8	3.2	4.1	4.1	4.8	4.1	3.1	1.1	2.1	4.0	102.8
June	0.5	0.8	4.7	1.7	2.8	1.1	0.7	0.9	0.8	0.8	2.3	2.3	2.4	2.3	5.6	8.5	7.5	2.3	3.6	1.9	1.3	0.4	0.6	0.1	55.9
July	0.1	0.1	...	0.3	0.5	4.5	6.4	0.9	1.8	...	...	1.7	1.3	1.3	0.3	...	1.0	...	...	0.8	1.3	2.0	0.2	...	24.5
Aug.	2.4	3.7	2.1	8.1	2.0	1.3	1.2	0.5	3.3	9.0	1.7	6.7	2.4	3.5	3.7	7.4	12.3	7.7	3.3	3.4	4.6	4.1	5.9	5.1	105.4
Sept.	11.8	4.4	4.0	1.0	0.3	1.5	1.4	1.7	0.2	0.2	3.4	1.3	7.9	0.8	0.2	...	0.4	0.1	5.5	8.5	7.9	12.3	5.3	3.4	83.5
Oct.	2.2	0.5	0.2	1.4	3.7	0.8	1.9	2.2	1.6	2.2	2.4	0.5	...	1.4	1.0	0.8	0.5	1.7	2.7	0.3	0.9	1.2	7.7	6.1	43.9
Nov.	3.0	4.2	2.5	3.5	4.1	4.0	2.3	2.8	2.5	3.0	3.4	3.6	2.5	2.3	3.0	1.1	6.5	3.1	1.6	1.8	1.2	3.4	1.7	1.7	68.8
Dec.	0.7	0.2	0.3	0.2	1.7	0.5	0.2	0.5	0.3	1.0	0.7	1.5	3.9	2.1	1.5	0.5	0.9	0.9	1.1	3.4	1.7	0.5	0.2	0.6	25.1
Annual	36.5	27.2	31.3	30.0	32.9	26.5	28.7	18.6	17.4	23.0	24.5	28.5	36.1	27.4	27.1	26.4	38.8	23.6	26.1	27.0	27.8	29.8	27.2	29.6	672.0

RAINFALL

Monthly and annual totals of durations in sixty-minute periods between exact hours, G.M.T.

71 ABERDEEN: $h_r = 24.1$ m. + 0.6 m.

1943

	Hour G.M.T.																								0-24
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
	<i>hours</i>																								
Jan.	1.9	1.9	3.8	3.0	4.2	2.2	3.8	3.2	4.5	3.8	5.1	5.6	6.8	4.1	5.2	3.1	2.7	1.5	0.6	1.1	2.5	2.7	2.2	2.0	77.5
Feb.	2.2	0.4	...	1.2	2.1	2.2	1.8	0.6	...	0.3	1.0	...	...	0.3	0.9	1.5	0.4	...	0.4	1.2	1.0	1.2	2.9	2.4	24.0
Mar.	1.2	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0.3	0.8	0.2	0.2	...	...	0.8	0.2	...	0.2	0.3	...	...	...	0.1	1.0	11.5
Apr.	2.6	2.9	2.3	2.3	2.6	1.6	1.9	1.9	0.6	0.2	0.7	1.0	1.8	2.1	2.3	1.7	1.4	0.7	0.4	...	0.5	0.3	1.2	2.1	35.1
May	2.7	3.3	3.9	3.4	4.0	4.0	2.9	1.7	1.1	3.0	3.1	3.4	4.8	3.6	3.4	2.7	3.0	2.0	2.1	3.0	2.7	1.5	1.9	2.4	69.6
June	0.7	1.0	2.2	1.5	1.8	1.3	1.0	1.0	1.0	1.0	2.0	1.5	1.4	1.6	2.1	1.5	2.2	2.1	2.7	1.6	1.5	1.2	1.6	1.0	36.5
July	0.5	0.2	...	0.3	0.6	2.0	2.4	1.8	2.0	...	...	0.7	1.0	1.0	0.1	...	0.6	...	...	0.4	1.7	1.8	0.5	...	17.6
Aug.	3.0	2.3	2.0	3.6	2.7	1.7	1.2	0.9	1.9	1.9	1.4	3.4	1.9	1.6	2.1	4.1	4.7	4.6	2.3	2.5	2.4	2.3	5.3	4.0	63.8
Sept.	2.9	1.8	3.0	2.3	2.0	2.0	1.2	1.1	0.4	0.3	1.0	0.7	2.1	0.7	0.2	...	0.3	0.1	2.7	3.4	2.9	3.6	1.9	1.5	38.1
Oct.	3.3	1.6	0.6	0.4	0.4	0.6	1.2	2.1	1.4	2.0	2.9	1.0	...	1.0	1.1	0.8	0.8	1.8	1.2	0.4	0.8	1.2	3.6	5.2	35.4
Nov.	1.8	4.4	2.1	3.4	4.0	3.4	2.9	2.5	2.5	3.2	2.8	2.7	2.4	2.9	2.8	1.5	2.8	1.9	1.5	1.5	1.2	1.7	1.1	0.9	57.9
Dec.	1.3	1.2	1.0	0.1	1.5	1.2	1.0	1.1	0.9	0.9	0.6	2.0	2.9	2.7	2.9	1.1	1.0	1.2	0.9	1.4	1.0	0.3	0.3	1.1	29.6
Annual	24.1	22.0	21.9	22.5	26.9	23.2	22.3	18.1	16.6	17.4	20.8	22.2	25.1	21.6	23.9	18.2	19.9	16.1	15.1	16.5	18.2	17.8	22.6	23.6	496.6

NOTES ON RAINFALL

72 ABERDEEN:

1943

Dry Periods

The following definitions are adopted by the British Rainfall Organization

An "absolute drought" is a period of at least 15 consecutive days to none of which is credited 0.2 mm. of rain or more

A "partial drought" is a period of at least 29 consecutive days, the mean daily rainfall of which does not exceed 0.2 mm.

A "dry spell" is a period of at least 15 consecutive days to none of which is credited 1.0 mm. of rain or more

"Absolute drought": March 1-24, July 16-30

"Partial drought": February 16-March 25

"Dry spells": February 26-March 24; July 16-31

Wet Periods

The following definitions are adopted by the British Rainfall Organization

A "rain spell" is a period of at least 15 consecutive days to each of which is credited 0.2 mm. of rain or more

A "wet spell" is a period of at least 15 consecutive days to each of which is credited 1.0 mm. of rain or more

"Rain spells": No occasions

"Wet spells": No occasions

Rainfall Duration

Hours	0.1-1.0	1.1-2.0	2.1-6.0	6.1-12.0	>12.0
Number of days	80	27	59	19	3

Continuous or Heavy Falls

The heaviest fall was 47 mm. in 22 hr. on May 8-9

Heavy Falls in short periods

On August 1, 10 mm. fell in 1 hr.

Rate of Rainfall (Jardi recorder)

The highest instantaneous rate of rainfall was 80 mm./hr. on August 29.

73 ABERDEEN: h_s (height of recorder above ground) = 20.7 m.

1943

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Dura- tion	Per cent. of pos- sible	Dura- tion	Per cent. of pos- sible	Dura- tion	Per cent. of pos- sible	Dura- tion	Per cent. of pos- sible	Dura- tion	Per cent. of pos- sible	Dura- tion	Per cent. of pos- sible	Dura- tion	Per cent. of pos- sible	Dura- tion	Per cent. of pos- sible	Dura- tion	Per cent. of pos- sible	Dura- tion	Per cent. of pos- sible	Dura- tion	Per cent. of pos- sible	Dura- tion	Per cent. of pos- sible
1	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%
2	1.7	25	5.0	60	2.2	21	9.0	69	10.3	67	3.7	21	0.1	1	4.5	28	...	...	2.1	18	...	...	...	...
3	3.1	46	2.0	24	1.3	12	7.6	58	8.6	55	3.5	20	6.9	39	2.4	15	8.3	60	7.1	62	...	...	...	...
4	5.3	78	4.4	52	...	...	1.7	13	7.1	46	...	...	6.2	35	0.1	1	3.2	23	8.3	73	...	...	...	...
5	...	...	...	...	0.5	5	2.6	20	0.8	5	...	...	5.7	32	0.1	1	6.6	49	0.3	3	...	...	...	...
6	...	...	...	...	4.5	41	4.9	37	7.6	48	1.5	9	3.1	18	1.0	6	3.4	25	1.4	13	7.5	86	...	...
7	2.7	39	5.0	57	8.6	78	3.4	25	7.1	45	7.5	43	3.4	19	...	...	0.2	2	9.1	82	1.3	15	...	...
8	...	...	...	...	3.5	32	1.3	10	...	...	2.8	16	5.5	31	8.7	55	6.1	46	...	...	0.9	10	0.2	3
9	...	...	3.9	44	7.1	63	6.3	46	3.9	24	9.3	53	0.2	1	7.0	45	4.7	35	2.1	19	0.1	1	...	...
10	...	...	2.9	32	4.2	37	1.6	12	7.6	47	...	...	12.3	70	...	...	2.2	17	...	...	0.8	10	0.2	3
11	...	...	0.1	1	10.2	90	0.8	6	13.3	83	2.1	12	6.0	34	4.6	30	...	...	2.9	27	0.1	1	0.6	9
12	...	...	4.7	52	8.8	77	3.4	24	2.6	16	13.4	76	8.9	51	5.9	38	...	...	...	...	3.5	42	2.3	34
13	1.9	26	2.7	29	8.5	74	5.9	42	...	...	8.2	46	8.1	47	1.9	12	...	...	3.4	32	3.6	44	0.3	4
14	4.1	57	2.4	26	8.8	76	0.2	1	13.7	84	5.8	33	3.5	20	6.9	45	0.4	3	8.1	77	...	...	3.7	55
15	3.2	44	4.1	44	...	...	3.4	24	14.2	87	11.0	62	0.9	5	6.9	45	2.5	20	6.3	61	2.8	35	...	...
16	...	...	1.5	16	9.3	79	8.2	58	3.7	22	5.7	32	13.2	77	11.7	77	6.7	52	0.2	2	4.9	61	...	...
17	1.6	22	7.6	80	1.5	13	...	...	4.8	29	3.8	21	13.5	78	...	...	5.0	39	...	...	2.1	27	...	...
18	4.0	54	5.7	59	...	...	3.9	27	3.7	22	0.5	3	13.0	76	0.1	1	10.8	86	6.3	62	0.7	9	1.6	24
19	...	...	3.0	31	...	...	11.5	79	1.0	6	8.8	49	11.3	66	1.1	7	4.3	34	...	...	...	...	0.9	14
20	...	...	0.4	4	...	...	...	...	6.3	38	9.7	54	5.4	32	3.1	21	8.9	72	6.5	65	2.8	36	3.0	45
21	...	...	1.8	18	...	...	11.3	77	2.8	17	10.3	58	...	...	1.1	7	8.3	67	2.3	23	...	...	...	...
22	1.2	16	4.9	49	7.3	60	0.5	3	6.5	39	2.3	13	11.2	66	10.2	69	2.0	16	2.8	28	4.4	58	1.5	23
23	...	...	5.3	53	0.9	7	3.8	26	...	...	5.3	30	14.2	85	4.7	32	0.2	2	...	...	...	...	5.3	80
24	...	...	4.5	45	0.1	1	8.0	54	1.3	8	3.6	20	14.1	84	3.8	26	5.0	41	1.6	16	0.4	5	2.3	35
25	...	...	7.3	72	...	...	9.4	63	1.8	11	2.8	16	7.0	42	0.8	6	8.4	70	5.5	57	5.6	76	...	...
26	5.5	70	1.6	16	...	...	4.7	31	...	...	3.3	19	2.2	13	8.2	57	4.6	39	...	...	5.5	74	1.3	20
27	...	...	8.9	86	6.4	51	2.7	18	15.1	88	6.0	34	7.7	46	8.1	57	4.8	40	...	...	...	...	...	...
28	0.3	4	2.9	28	8.8	69	8.1	53	13.8	80	14.3	80	2.4	15	2.5	17	1.6	14	...	...	1.8	25	0.3	5
29	6.5	80	...	...	1.3	10	9.3	61	3.2	19	12.5	70	1.4	9	...	...	7.7	66	5.0	54	0.6	8	0.7	11
30	...	...	...	...	4.1	32	0.9	6	3.6	21	10.8	61	1.7	10	3.0	21	2.2	19	...	...	3.6	50	3.3	50
31	...	...	...	...	2.4	19	...	...	2.4	14	...	...	9.5	58	2.5	18	...	...	...	...	...	...	...	...
Mean	1.33	-	3.39	-	3.63	-	4.50	-	5.70	-	5.99	-	6.61	-	3.58	-	4.21	-	2.62	-	1.77	-	0.89	-
												Annual mean	3.68	-										

DURATION OF BRIGHT SUNSHINE

Monthly and annual totals between exact hours, local apparent time

74 ABERDEEN: h_s = 20.7 m.

1943

	Hour L.A.T.																				Total	per cent. of possible
	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12		12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21			
hours																						
Jan.	-	-	-	-	...	0.4	5.4	7.1	6.5		6.5	8.4	6.1	0.7	...	-	-	-	-		41.1	18
Feb.	-	-	-	...	0.7	7.2	11.5	12.4	15.2		14.7	13.4	10.9	7.4	1.6	...	-	-	-		95.0	36
Mar.	-	-	...	2.2	8.4	11.4	13.1	13.7	12.7		12.7	11.8	11.9	8.1	6.1	0.4	...	-	-		112.5	31
Apr.	-	...	2.2	7.2	10.0	11.8	13.2	14.1	12.8		11.9	10.9	12.1	11.1	8.6	6.5	2.6	...	-		135.0	32
May	...	3.3	9.8	11.0	10.7	11.3	12.4	13.0	13.5		12.4	13.3	11.6	15.3	13.7	12.8	9.1	3.6	...		176.8	35
June	0.1	5.5	10.2	10.2	13.2	13.7	13.8	15.3	15.0		12.9	12.5	11.2	11.2	12.0	10.2	7.5	4.5	0.6		179.6	34
July	0.5	4.8	8.7	8.6	11.6	11.8	14.5	14.2	15.2		15.9	15.5	16.1	17.5	14.6	13.2	12.0	9.4	0.7		204.8	39
Aug.	...	0.9	4.9	8.0	10.4	10.0	7.9	8.8	9.5		10.7	10.2	9.1	8.1	6.1	4.6	1.7	...	...		110.9	24
Sept.	-	-	0.3	5.0	10.5	11.2	11.7	14.0	14.5		12.2	11.7	13.1	9.7	8.1	3.9	0.3	-	-		126.2	33
Oct.	-	-	-	0.2	2.9	7.0	8.4	9.9	9.8		9.6	10.5	11.1	9.1	2.7	0.1	-	-	-		81.3	25
Nov.	-	-	-	-	0.3	1.8	4.9	8.4	9.9		9.7	10.1	6.7	1.2	...	-	-	-	-		53.0	22
Dec.	-	-	-	-	-	...	2.1	5.9	5.3		4.7	6.2	3.3	...	-	-	-	-	-		27.5	13
Annual	0.6	14.5	36.1	52.4	78.7	97.6	118.9	136.8	139.9		133.9	134.5	123.2	99.4	73.5	51.7	33.2	17.5	1.3		1343.7	30

WIND

55

Mean speed and highest instantaneous speed recorded each day (0h. to 24h., G.M.T.) by the pressure-tube anemograph

75 ABERDEEN: h_a (height of anemograph above M.S.L.) = height of ground above M.S.L. + height of anemograph above ground
= 24 m. + 13 m.

1943

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust
	<i>metres per second</i>																							
1	2.8	14	3.9	15	3.3	15	9.0	24	3.4	12	2.6	12	2.7	9	2.4	15	3.2	11	4.6	18	1.4	8	2.0	10
2	5.3	20	1.5	7	5.4	19	4.1	14	3.7	13	2.9	9	3.8	12	2.2	9	2.6	12	3.7	13	1.6	7	4.9	17
3	5.7	16	1.5	6	3.4	12	3.1	13	3.1	11	2.8	10	2.1	7	2.5	10	2.2	8	3.5	17	3.2	12	2.8	13
4	2.8	11	2.9	14	3.7	13	3.3	14	1.9	11	1.4	8	3.1	22	2.8	10	4.7	17	4.3	22	4.6	16	1.9	5
5	2.3	12	3.8	18	4.4	16	6.9	27	1.6	9	2.1	10	2.5	12	4.0	12	6.5	20	5.0	21	4.6	17	1.0	3
6	5.8	17	6.4	29	3.3	11	6.5	24	2.2	13	1.9	17	1.8	7	4.0	16	5.6	20	4.4	15	5.3	18	1.4	4
7	2.9	13	4.3	13	2.7	12	9.8	33	3.5	15	4.4	16	4.3	13	2.6	11	2.4	10	2.7	11	3.8	16	1.1	5
8	1.7	11	7.1	23	5.4	17	5.4	22	7.4	26	1.4	8	3.9	13	3.6	11	1.9	7	3.7	14	2.4	10	2.2	10
9	6.2	23	5.0	23	3.8	16	4.1	17	9.1	26	3.1	11	2.9	12	5.5	15	2.1	10	3.1	13	3.8	18	2.1	7
10	5.5	23	2.5	13	5.8	19	3.1	12	2.2	9	2.5	10	2.8	10	1.6	7	2.7	10	3.8	14	6.5	25	2.8	12
11	8.1	27	4.4	15	5.3	16	1.3	5	4.6	17	2.1	10	4.1	15	2.6	11	2.6	8	3.1	13	4.5	16	1.5	9
12	7.9	23	7.5	27	3.7	11	2.3	13	4.1	17	4.0	15	3.9	15	2.6	13	2.7	9	5.4	17	7.1	22	2.1	10
13	2.6	12	7.0	22	5.3	16	3.4	13	4.5	14	3.5	15	3.1	15	4.8	23	2.3	10	1.3	5	4.5	17	2.4	8
14	1.4	9	5.9	21	3.9	14	5.7	20	5.2	15	2.2	11	2.9	12	4.0	15	1.9	10	2.2	10	9.0	27	1.6	8
15	1.3	6	11.1	37	5.3	22	2.5	13	4.7	18	2.1	10	3.0	13	2.0	14	3.4	20	3.0	12	7.0	20	1.9	11
16	1.4	10	5.5	21	3.5	17	2.9	12	2.4	11	1.9	7	6.2	21	2.8	13	3.9	15	6.5	17	4.4	13	3.4	16
17	5.1	17	3.6	16	2.1	11	4.7	20	1.3	6	2.5	9	1.5	6	2.6	9	1.3	6	7.4	23	4.6	15	5.2	17
18	1.6	10	5.0	18	2.5	11	5.0	20	2.7	10	2.6	12	1.1	6	(2.1)	13	2.5	13	4.3	18	3.0	8	4.6	22
19	1.6	9	5.4	24	4.5	12	4.7	19	5.4	17	3.8	14	1.6	7	(1.6)	9	3.1	15	5.9	22	1.0	5	7.7	22
20	3.4	11	3.0	11	4.1	12	4.5	15	1.3	7	4.6	17	2.9	10	3.2	18	6.3	24	6.1	19	2.5	10	3.6	14
21	1.6	11	2.4	8	3.3	10	4.1	17	1.9	6	4.6	15	2.8	10	1.4	7	4.9	16	5.8	17	1.6	9	4.9	19
22	0.9	5	2.1	10	2.1	6	1.6	7	2.6	8	3.6	15	2.5	9	4.1	14	3.0	14	2.9	12	2.7	12	3.6	13
23	1.3	(5)	4.5	16	2.1	6	3.4	(11)	2.6	13	3.1	16	2.0	6	2.5	13	4.0	15	2.4	11	3.4	20	4.7	18
24	5.6	17	2.9	12	3.2	9	5.5	...	2.1	11	2.6	9	2.3	7	1.9	9	3.7	13	0.9	5	6.5	23	3.0	14
25	5.8	20	6.1	22	3.5	10	8.0	22	0.9	5	3.1	13	2.9	10	3.4	11	4.6	15	2.4	11	8.5	22	3.6	17
26	6.3	22	3.5	14	2.1	10	7.7	22	2.3	9	3.2	11	4.0	14	2.1	9	4.7	18	6.6	22	4.9	16	3.1	19
27	3.5	15	2.2	9	3.1	14	3.4	12	3.4	14	1.7	7	3.2	12	2.0	8	4.4	17	4.1	16	2.1	9	2.2	12
28	3.8	13	4.6	19	3.4	11	4.2	17	4.3	15	1.5	6	2.3	10	1.8	11	2.7	15	5.2	17	4.4	15	2.9	11
29	6.2	23			5.1	17	3.0	9	2.6	9	3.5	11	1.7	7	2.1	9	2.4	11	3.5	13	3.4	14	3.9	18
30	6.5	19			5.3	23	3.1	13	2.9	12	3.9	13	2.3	9	4.4	18	3.1	15	5.8	17	6.2	17	6.5	23
31	5.0	15			7.9	23			2.1	7			3.3	16	2.3	9			3.1	13			2.8	11

* Trace failed.

WIND

Monthly and annual means of mean wind speed between exact hours, G.M.T.

76 ABERDEEN: h_a = 24 m. + 13 m.

1943

	Hour G.M.T.																								
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	metres per second																								
Jan.	4.0	3.9	4.0	3.8	3.8	3.7	3.7	3.7	4.0	4.1	3.9	3.8	4.1	4.0	4.0	3.8	3.9	3.9	3.8	4.0	4.3	4.1	4.2	4.1	3.9
Feb.	4.8	4.5	4.6	4.6	4.6	4.1	3.9	3.7	3.8	3.9	4.6	5.1	5.6	5.6	5.5	5.1	4.6	4.3	4.1	4.0	4.2	4.1	3.9	4.3	4.5
Mar.	3.7	3.5	3.3	3.6	3.7	3.4	3.3	3.5	3.8	4.3	4.7	4.7	5.0	5.0	4.8	4.6	4.3	3.9	3.6	3.4	3.8	3.6	3.7	3.8	4.0
Apr.	3.7	3.7	3.6	3.3	3.7	3.5	3.5	4.2	5.1	5.4	5.7	5.8	5.3	5.5	5.6	6.0	5.6	5.3	4.8	4.4	4.2	3.8	3.8	3.6	4.5
May	2.5	2.5	2.6	2.9	3.0	2.8	3.1	3.7	3.9	4.2	4.3	4.4	4.6	4.5	4.3	4.3	4.0	3.5	2.8	2.4	2.3	2.3	2.1	2.1	3.3
June	2.0	2.0	2.0	1.9	1.9	2.1	2.5	3.0	3.3	3.8	3.8	3.8	3.8	3.9	3.8	3.6	3.5	3.4	2.8	2.7	2.3	2.2	2.1	2.2	2.8
July	2.0	1.9	2.1	2.3	2.4	2.5	2.6	2.8	3.0	3.3	3.5	3.8	3.9	4.1	4.0	3.9	3.8	3.4	3.0	2.6	2.2	2.1	2.0	1.9	2.9
Aug.	2.2	2.4	2.4	2.4	2.3	2.3	2.5	2.7	3.2	3.4	3.6	3.8	3.7	3.7	3.5	3.5	3.2	3.0	2.7	2.3	2.2	2.2	2.2	2.1	2.8
Sept.	2.9	2.6	2.6	2.7	2.9	2.9	2.8	3.3	3.5	3.9	4.1	4.3	4.4	4.5	4.4	4.0	3.8	3.4	3.4	2.8	2.9	3.0	3.0	3.2	3.4
Oct.	3.5	3.3	3.5	3.2	3.2	3.5	3.3	3.8	4.2	4.6	4.9	5.0	5.3	5.2	4.8	4.8	4.6	4.5	4.2	4.0	3.7	3.6	3.8	3.8	4.1
Nov.	3.9	4.1	3.9	4.0	4.1	3.9	3.9	3.9	3.9	4.5	4.7	4.9	4.8	5.1	5.1	4.8	4.6	4.5	4.0	4.2	4.3	4.2	3.8	3.9	4.3
Dec.	3.2	3.2	3.0	3.0	3.0	2.8	2.8	2.9	2.9	3.2	3.6	3.4	3.3	3.3	3.3	3.1	3.1	3.2	3.1	3.2	3.2	3.1	3.3	3.0	3.1
Annual	3.2	3.1	3.1	3.1	3.2	3.1	3.2	3.4	3.7	4.0	4.3	4.4	4.5	4.5	4.4	4.3	4.1	3.9	3.5	3.3	3.3	3.2	3.2	3.2	3.6

DISTRIBUTION OF WIND SPEED, EXTREME VELOCITIES AS RECORDED BY PRESSURE-TUBE ANEMOGRAPH

77 ABERDEEN: h_a = 24 m. + 13 m.

1943

	DISTRIBUTION OF WIND SPEED								EXTREME VELOCITIES				
	More than 17.1 m./sec.		10.8 to 17.1 m./sec.		5.5 to 10.7 m./sec.	1.6 to 5.4 m./sec.	Less than 1.6 m./sec.	No record	Highest hourly wind			Highest gust	
	Dates of occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration	Veer from N.	Speed	Hour ended	Speed	Date
		hr.		hr.	hr.	hr.	hr.	hr.	°	m./sec.	day h.	m./sec.	day h. m.
Jan.	-	0	4	8	214	345	177	0	150	12	11 13	27	11 14 35
Feb.	15	3	7	21	189	376	83	0	320	18	15 18	37	15 17 15
Mar.	-	0	-	0	145	535	64	0	280	11	31 2	23	30 18 30
Apr.	7	1	7	24	215	387	93	0	330	19	7 9	33	7 8 15
May	-	0	2	13	108	432	191	0	330	15	9 7	26	9 7 50
June	-	0	-	0	41	523	156	0	190	8	20 17	17	20 19 40
July	-	0	1	1	45	536	162	0	320	11	16 9	22	4 13 25
Aug.	-	0	1	1	60	486	197	0	320	12	13 22	23	13 20 55
Sept.	-	0	-	0	102	500	118	0	300	10	20 13	24	20 11 35
Oct.	-	0	2	3	203	427	111	0	130	11	17 20	23	17 19 20
Nov.	-	0	4	9	220	375	116	0	350	12	14 8	27	14 7 0
Dec.	-	0	-	0	121	427	196	0	220	10	19 11	23	30 0 5
Year	2 days	4	28	80	1663	5349	1664	0	330	19	Apr. 7 9	37	Feb. 15 17 15

78 ABERDEEN

1943

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.
	<i>degrees Absolute</i>											
1	76.6 79.1	76.4 77.5	77.7 77.9	78.9 79.0	81.6 80.8	84.2 82.6	88.1 85.1	88.9 86.1	86.6 85.8	83.6 84.6	82.9 83.1	77.4 80.2
2	76.4 79.1	76.2 77.5	78.1 77.9	78.8 79.1	82.0 80.8	84.4 82.7	87.6 85.2	88.9 86.2	86.7 85.8	83.8 84.6	83.2 83.1	77.9 80.2
3	76.1 79.0	75.7 77.4	78.1 78.0	79.5 79.0	82.3 80.8	84.9 82.8	87.3 85.3	88.9 86.3	86.9 85.8	83.3 84.5	83.4 83.1	78.4 80.1
4	75.8 78.8	75.4 77.4	77.9 78.0	80.2 79.0	82.4 81.1	85.1 82.9	87.3 85.3	87.9 86.4	86.1 85.8	83.2 84.4	83.4 83.2	78.2 79.9
5	75.6 78.6	75.3 77.4	77.5 78.1	80.3 79.1	82.9 81.1	85.2 82.9	87.3 85.3	87.7 86.4	86.1 85.8	83.2 84.4	83.4 83.3	78.0 79.8
6	75.4 78.6	75.8 77.4	77.7 78.1	79.7 79.2	82.7 81.2	84.4 83.0	87.2 85.3	87.3 86.4	86.2 85.8	83.6 84.2	83.3 83.3	78.3 79.8
7	75.3 78.4	75.8 77.4	78.0 78.1	79.2 79.3	82.4 81.2	84.8 83.1	87.1 85.4	87.0 86.3	86.3 85.7	83.3 84.1	82.1 83.2	78.4 79.7
8	75.1 78.3	75.5 77.4	78.1 78.1	79.0 79.4	81.9 81.3	85.3 83.1	86.7 85.4	86.9 86.3	85.9 85.7	82.7 84.1	81.1 83.2	78.4 79.7
9	75.1 78.1	75.6 77.2	77.8 78.2	79.3 79.4	81.1 81.3	85.8 83.2	86.7 85.4	87.3 86.3	86.1 85.7	82.6 84.1	80.7 83.1	78.4 79.7
10	75.0 78.0	75.7 77.2	77.9 78.2	80.2 79.4	80.2 81.4	85.9 83.3	86.4 85.4	87.0 86.3	86.1 85.7	83.1 84.0	81.0 83.2	78.2 79.7
11	75.1 77.9	75.8 77.1	78.4 78.3	80.5 79.4	80.6 81.3	85.8 83.4	86.7 85.4	86.9 86.3	86.4 85.7	83.5 84.0	81.2 82.8	77.9 79.7
12	75.8 77.8	76.7 77.1	77.8 78.3	80.7 79.4	80.8 81.1	86.0 83.5	86.9 85.3	86.3 86.2	86.6 85.7	83.4 83.9	80.8 82.7	77.7 79.7
13	76.6 77.7	76.6 77.2	77.3 78.3	81.1 79.5	81.2 80.9	86.0 83.6	86.9 85.4	86.3 86.1	86.7 85.7	83.3 83.9	80.3 82.6	77.1 79.7
14	76.4 77.6	76.6 77.3	77.3 78.3	81.8 79.6	81.9 81.0	85.8 83.7	86.7 85.4	86.4 85.9	86.6 85.7	82.8 83.8	79.8 82.4	76.4 79.6
15	75.8 77.6	77.1 77.3	77.6 78.3	82.0 79.7	82.6 81.1	85.8 83.8	86.8 85.4	86.2 85.9	86.7 85.7	82.6 83.8	79.5 82.3	76.2 79.4
16	75.3 77.6	76.6 77.4	77.4 78.4	81.8 79.8	82.5 81.2	86.0 83.8	87.2 85.6	86.4 85.9	86.4 85.8	82.9 83.7	79.1 82.2	75.8 79.3
17	75.2 77.5	76.4 77.4	77.9 78.3	81.7 79.9	82.9 81.3	86.3 83.9	86.9 85.4	86.4 85.8	86.2 85.8	83.0 83.6	78.6 81.9	75.8 79.2
18	75.3 77.4	76.9 77.4	78.8 78.3	81.7 80.2	83.2 81.4	86.3 84.1	87.6 85.5	86.4 85.8	86.0 85.8	82.8 83.6	78.3 81.7	75.8 79.1
19	75.1 77.4	76.9 77.4	78.9 78.3	81.7 80.2	83.2 81.4	86.2 84.1	87.9 85.6	86.5 85.8	86.0 85.7	82.8 83.6	78.1 81.5	75.9 78.9
20	75.3 77.4	77.2 77.4	78.6 78.4	81.2 80.3	83.0 81.6	86.5 84.1	88.2 85.7	86.8 85.8	86.0 85.7	83.1 83.6	78.6 81.3	75.7 78.7
21	76.1 77.3	77.1 77.4	78.4 78.4	81.0 80.4	83.4 81.6	86.8 84.2	88.1 85.7	86.8 85.8	85.3 85.7	83.1 83.5	78.9 81.2	75.7 78.6
22	76.3 77.3	77.2 77.5	78.6 78.5	81.3 80.4	83.8 81.7	86.7 84.3	87.8 85.8	86.7 85.8	84.7 85.7	83.0 83.5	78.8 81.1	76.3 78.6
23	75.8 77.4	77.3 77.5	78.9 78.6	81.4 80.5	84.2 81.8	86.5 84.4	87.7 85.8	87.1 85.8	84.7 85.7	82.8 83.4	78.8 81.1	76.2 78.6
24	75.7 77.4	77.7 77.6	79.2 78.6	81.7 80.6	83.7 81.9	86.6 84.6	87.6 85.9	87.3 85.8	85.2 85.6	82.8 83.4	78.7 81.0	75.8 78.5
25	76.2 77.4	77.9 77.6	79.2 78.6	81.8 80.6	84.0 82.1	86.6 84.6	87.8 85.9	87.3 85.9	84.6 85.4	82.3 83.4	78.6 80.9	75.7 78.4
26	76.4 77.4	77.5 77.7	79.0 78.6	81.6 80.6	84.2 82.2	86.7 84.7	87.9 85.9	86.8 85.9	83.9 85.2	82.2 83.4	78.1 80.8	75.9 78.3
27	76.4 77.4	77.4 77.8	79.1 78.7	81.3 80.7	83.9 82.3	86.9 84.7	87.8 85.9	86.4 85.9	83.2 85.2	82.4 83.3	77.4 80.7	76.3 78.2
28	76.7 77.4	77.7 77.8	79.2 78.8	81.2 80.7	84.6 82.3	87.4 84.7	88.2 85.9	86.4 85.9	82.6 85.1	82.7 83.3	77.5 80.5	76.7 78.1
29	77.2 77.4		79.4 78.9	81.1 80.8	84.5 82.4	87.8 84.7	88.3 85.9	86.1 85.8	82.9 84.9	83.0 83.2	77.6 80.4	77.3 78.1
30	77.0 77.4		79.1 79.0	81.4 80.8	84.6 82.5	88.1 84.9	88.3 86.0	86.1 85.8	83.6 84.7	82.9 83.2	77.3 80.3	77.0 78.1
31	76.9 77.4		79.0 79.0		84.2 82.5		88.6 86.1	86.2 85.8		82.9 83.2		76.4 78.1
Mean	75.9 77.8	76.6 77.4	78.3 78.4	80.8 79.9	82.8 81.5	86.0 83.8	87.5 85.6	87.0 86.0	85.6 85.6	83.0 83.8	80.0 82.0	76.9 79.2
	Year											
	81.7 81.8											

MINIMUM TEMPERATURE "ON THE GRASS" DURING THE INTERVAL 18h. TO 7h., G.M.T.

79 ABERDEEN

1943

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
	<i>degrees Absolute</i>											
1	71.9	70.1	72.8	72.8	76.3	81.3	82.7	86.9	83.8	77.2	81.2	73.3
2	70.2	69.6	78.1	75.3	73.9	79.4	83.1	84.2	81.1	75.3	81.9	76.7
3	71.8	67.9	69.0	81.8	76.6	80.9	76.1	82.1	73.8	75.4	83.0	77.6
4	68.6	69.1	73.3	72.6	74.1	79.2	81.5	79.6	72.8	77.6	82.4	68.3
5	64.1	71.3	68.7	77.6	75.4	81.4	78.1	83.3	84.1	76.9	82.3	76.3
6	71.3	73.8	74.0	72.3	76.4	79.3	80.3	83.1	82.3	81.2	72.7	72.3
7	73.7	69.7	68.9	73.1	72.7	78.2	77.6	74.7	78.6	72.4	71.5	75.4
8	68.1	70.2	72.9	72.4	71.7	83.9	79.3	81.4	79.7	72.3	68.6	75.6
9	66.4	73.1	70.8	79.3	73.4	76.4	79.7	82.0	76.8	75.4	74.7	75.7
10	73.3	71.9	77.9	78.3	68.7	83.3	73.2	80.0	82.4	82.1	79.2	69.4
11	76.8	69.1	72.2	75.3	71.5	83.2	81.9	79.9	84.7	81.9	73.9	72.6
12	76.8	78.6	68.9	74.5	75.6	80.7	80.8	73.9	85.1	74.9	76.9	68.6
13	72.3	71.9	71.0	81.1	80.0	79.1	73.2	81.5	84.9	79.8	72.1	64.1
14	70.3	78.1	72.8	81.9	81.8	78.3	76.9	79.6	85.7	68.9	72.4	62.6
15	67.2	73.1	72.9	79.5	75.9	74.1	83.7	74.9	75.3	74.0	74.4	63.9
16	68.3	72.3	67.7	72.0	74.6	75.0	82.2	78.8	81.2	81.3	72.5	69.6
17	72.0	70.2	78.2	77.3	78.1	77.4	74.4	76.7	78.5	81.9	70.4	72.8
18	73.2	77.2	79.2	81.0	71.9	78.7	81.7	84.1	76.8	74.9	71.3	63.5
19	67.2	73.0	75.7	73.0	80.0	82.5	77.8	79.9	78.9	80.3	72.4	73.2
20	77.6	69.7	77.1	72.4	74.4	83.5	82.1	84.6	77.1	79.6	71.8	72.7
21	77.4	73.3	77.0	75.2	79.6	81.9	83.1	81.2	75.6	80.1	79.6	73.2
22	70.7	72.4	70.7	74.1	79.8	75.1	82.4	80.9	73.4	80.1	72.6	72.3
23	69.1	72.5	76.4	72.2	80.8	82.2	73.3	83.5	80.3	72.2	69.4	67.7
24	72.2	75.8	75.3	76.1	80.2	78.4	72.5	82.3	79.2	79.7	72.6	72.2
25	78.7	74.9	76.7	76.8	81.1	81.4	80.8	80.6	74.0	71.2	72.6	69.0
26	73.2	70.9	77.0	78.0	74.7	83.1	83.5	71.9	74.5	78.6	71.4	72.3
27	71.1	73.3	72.0	73.9	75.8	80.6	82.2	73.5	72.0	82.9	65.1	76.9
28	75.9	69.8	71.3	74.5	77.9	82.8	...	79.8	73.5	82.6	74.3	74.9
29	76.2		73.9	69.6	76.3	79.0	84.3	75.9	77.5	80.8	69.2	72.4
30	73.7		72.7	76.9	80.7	81.7	83.9	80.7	75.0	78.6	70.4	71.8
31	72.8		73.5		75.7		86.7	76.0		80.7		67.9
Mean	72.0	72.2	73.5	75.7	76.3	80.1	80.0†	79.9	78.6	77.8	74.1	71.4
	Year											
	76.0											

* Bubbles in column † Mean of 30 days.

The initial 2 or 3 of the readings is omitted, i.e. 275.0 degrees is printed 75.0

The minimum "on the grass" refers to the interval from 18h. on the previous day to 7h. on the day to which it is entered.

Add 0.16° to obtain temperature in degrees Kelvin where $T(^{\circ}\text{K.}) = t(^{\circ}\text{C.}) + 273.16$.

ESKDALEMUIR

ESKDALEMUIR OBSERVATORY

Latitude 55°19' N.
Longitude 3°12' W.
G.M.T. of Local Mean Noon 12h.13m.

Heights of instruments	above M.S.L.	above ground
	m.	m.
Barometer	237·3	..
Thermometer bulbs	..	0·9
Rain-gauge	242·0	..
Dines tilting syphon recorder	..	..
Sunshine recorder	..	1·5
Pressure-tube anemograph	250	15

INTRODUCTION

Reference should be made to the 1938 volume for details of site and meteorological instruments. The only important change since that date was the replacement of the Beckley rain-gauge by the Dines tilting syphon recorder in September 1940.

NOTES ON THE METEOROLOGICAL SUMMARIES

The extreme temperatures during the year were 300·1°A. (80·8°F.) on July 31 and 264·4°A. (16·5°F.) on January 13. January 8, with a mean temperature of 268·2°A. (23·4°F.), was the coldest day of the year and July 31, with 292·3°A. (66·7°F.), was the hottest. There were 3 ice days, i.e. days with maximum temperature below 273°A., all occurring in January.

The total rainfall for the year, 1708·9 mm. (67·28 in.), was greater than normal. Snow fell on 31 days.

The total duration of bright sunshine, 1208·4 hr., was nearly normal.

The highest gust of wind during the year, 40·9 m./sec. (91 m.p.h.), on April 7 was also the highest gust registered since records commenced. The highest hourly speed, 24·5 m./sec. (55 m.p.h.), also occurred on the same day.

The results of the harmonic analysis of the diurnal inequalities of pressure are set out in the accompanying table. For purposes of comparison the corresponding data are also given derived from the mean inequalities for the period 1911-20 by Dr. A. Crichton Mitchell*.

* MITCHELL, A. CRICHTON: On the diurnal variation of atmospheric pressure at Eskdalemuir and Castle O'er, Dumfriesshire. *Quart. J.R. met. Soc.*, London, 50, 1924, p.127.

HARMONIC COEFFICIENTS OF THE DIURNAL INEQUALITY OF ATMOSPHERIC PRESSURE
ESKDALEMUIR, LONGITUDE $3^{\circ}12'W$.

Values of c_n , α_n in the series $\sum c_n \sin(15nt + \alpha_n)$, t being local mean time reckoned in hours from midnight

	c_1		α_1		c_2		α_2		c_3		α_3		c_4		α_4	
	1943	1911-1920	1943	1911-1920	1943	1911-1920	1943	1911-1920	1943	1911-1920	1943	1911-1920	1943	1911-1920	1943	1911-1920
	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°
January	0.84	0.09	113	346	0.13	0.23	165	152	0.11	0.13	8	345	0.07	0.05	189	214
February	0.42	0.12	235	215	0.36	0.27	145	138	0.16	0.08	329	341	0.04	0.04	75	68
March	0.25	0.13	32	185	0.43	0.30	147	145	0.06	0.05	353	335	0.06	0.05	31	25
April	0.34	0.21	229	92	0.38	0.30	171	155	0.02	0.02	235	156	0.04	0.05	18	356
May	0.30	0.23	56	53	0.21	0.27	168	147	0.08	0.07	161	160	0.04	0.03	353	330
June	0.10	0.15	18	54	0.16	0.23	140	146	0.11	0.08	151	161	0.02	0.02	347	326
July	0.18	0.17	121	69	0.27	0.21	133	141	0.10	0.08	170	156	0.03	0.02	331	300
August	0.16	0.11	151	115	0.21	0.24	164	148	0.07	0.06	156	157	0.04	0.05	348	331
September	0.42	0.12	238	88	0.30	0.31	166	152	0.01	0.01	145	111	0.06	0.05	353	345
October	0.07	0.11	52	76	0.31	0.31	163	159	0.08	0.06	360	8	0.03	0.04	23	33
November	0.18	0.13	139	183	0.32	0.24	172	168	0.09	0.10	20	9	0.05	0.01	13	146
December	0.14	0.14	321	97	0.26	0.21	143	147	0.13	0.12	360	4	0.07	0.07	196	213
Arithmetic mean	0.28	0.14			0.28	0.26			0.09	0.07			0.05	0.04		
Year	0.08	0.09	141	91	0.27	0.26	157	150	0.02	0.02	18	42	0.02	0.02	9	342
Winter	0.19	0.04	140	165	0.26	0.24	155	151	0.11	0.11	357	355	0.02	0.02	166	189
Equinox	0.11	0.11	247	104	0.35	0.31	161	153	0.03	0.02	352	4	0.04	0.04	15	9
Summer	0.13	0.15	86	67	0.21	0.24	151	146	0.09	0.07	160	159	0.03	0.03	345	324

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

ATMOSPHERIC ELECTRICITY

The disposition of the instruments and the arrangement of the tables recording the results remain substantially the same as described in the 1938 volume. Wulf quartz-thread electrometer (N.3040) was calibrated in July. No material change had taken place since the previous year.

TERRESTRIAL MAGNETISM

Reference should be made to the 1938 volume for notes on the instruments and tables.

NOTES ON THE RESULTS

Comparing mean values on all days of 1943 with those for 1942 it is noted that H decreased by 2γ , $D(\text{west})$ decreased by $8.6'$ and V increased by 25γ . The changes in the deduced quantities N , W , I and T are $+8\gamma$, -41γ , $+0.7'$, $+23\gamma$. If these changes are compared with those for previous years the discontinuities introduced on January 1, 1934 in H and V and the components derived from them must be kept in mind.

The ranges between the extreme values recorded during 1943 were H , 667γ ; D , $1^{\circ}26.6'$ and V 588γ .

Table I summarizes the magnetic character figures assigned locally and the international mean character figures. At the assembly of the association of Terrestrial Magnetism and Electricity at Washington in September 1939, a new measure of magnetic disturbance, the K index, was agreed upon. Measurements of K are now given in this volume replacing the former measure $(HR_H + VR_V)10^{-4}$ in accordance with the International Association of Terrestrial Magnetism and Electricity circular letter dated January 20, 1940. The K index is fully described in *Terrestrial Magnetism and Atmospheric Electricity**.

* BARTELS, J., HECK, N.H., AND JOHNSTON, H.F.: The three-hour-range index measuring geomagnetic activity. *Terr. Magn. atmos. Elect.*, Baltimore. Ma. 44, 1939, p.411.

Briefly a figure is allotted, on a scale 0-9, to each 3-hr. interval. The figure is a measure of the range of magnetic force during that period, measured from a curved line which represents the normal quiet day variation. The figures are first allotted from the H magnetogram and then increased, if necessary, by inspection of the D and V curves, so that the most disturbed component determines the final figure. The scale of ranges in γ corresponding to the figures 0-9 varies from observatory to observatory. The lower limit of each number for Eskdalemuir is

K	0	1	2	3	4	5	6	7	8	9
Range in γ	0	8	15	30	60	105	180	300	500	750

Table I has been slightly changed in form from years before 1940 owing to the omission of $(HR_H + VR_V)10^{-4}$. K figures and their sums have been given for each day in the main tables but as it is considered that monthly means of K figures are not a good measure of activity they are not included.

TABLE I

	Magnetic character figures			Mean character figures	
	0 days	1 days	2 days	Eskdalemuir	International
January	21	9	1	0.35	0.50
February	15	12	1	0.50	0.49
March	11	18	2	0.71	0.64
April	11	17	2	0.70	0.59
May	11	19	1	0.68	0.63
June	13	17	0	0.57	0.62
July	13	17	1	0.61	0.66
August	6	21	4	0.94	1.01
September	7	21	2	0.83	0.86
October	11	17	3	0.74	0.84
November	11	16	3	0.73	0.77
December	16	13	2	0.55	0.59
Year					
1943	146	197	22	0.66	0.68
1942	151	191	23	0.65	0.64
1941	172	168	25	0.60	0.73
1940	156	184	26	0.65	0.72
1939	167	172	26	0.61	0.77
1938	183	135	47	0.63	0.76
1937	116	205	44	0.81	0.73
1936	144	198	24	0.67	0.65
1935	130	212	23	0.71	0.67
1934	167	178	20	0.60	0.56
1933	156	175	34	0.67	0.64

The values of mean absolute daily range for the months and seasons are brought together in Table II where for convenience of comparison the ranges of declination in angle have been converted to units of force of the component perpendicular to the magnetic meridian.

The frequency distribution of absolute daily ranges recorded in 1943 is shown in Table III which contains also the percentage distribution for 1943 and for the period 1932-1942.

TABLE II - ABSOLUTE DAILY RANGE AND MEAN MONTHLY VALUES

	Mean absolute daily range						Mean daily range expressed as percentage of yearly mean					
	1943			Mean 1932-42			1943			Mean 1932-42		
	H	D	V	H	D	V	H	D	V	H	D	V
January	γ	γ	γ	γ	γ	γ	%	%	%	%	%	%
February	62	76	40	78	79	44	62	82	61	81	91	77
March	58	67	33	76	86	50	58	72	50	79	99	88
April	85	92	57	122	113	82	85	99	86	127	130	144
May	100	88	64	125	103	79	100	95	97	130	118	139
June	105	79	66	111	86	66	105	85	100	116	99	116
July	103	75	49	100	81	50	103	81	74	104	93	88
August	106	83	56	106	82	53	106	89	85	110	94	93
September	167	124	125	102	85	57	167	133	189	106	98	100
October	122	114	92	102	95	64	122	123	139	106	109	112
November	119	122	92	97	94	65	119	131	139	101	108	114
December	100	108	71	67	75	41	100	116	108	70	86	72
Winter	77	89	50	61	69	40	77	96	76	64	79	70
Equinox	74	85	49	70	77	44	74	91	74	73	89	77
Summer	107	104	76	111	101	72	107	112	115	116	116	126
Year	120	90	74	105	84	57	120	97	112	109	97	100
	100	93	66	96	87	57	..	..	..	..	..	..

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

TABLE III - FREQUENCY DISTRIBUTION OF ABSOLUTE DAILY RANGE

Range	Number of cases, 1943			Percentage distribution					
				H		D		V	
	H	D	V	1943	1932-42	1943	1932-42	1943	1932-42
γ				%	%	%	%	%	%
0 - 9	0	0	5	0.0	0.0	0.0	0.0	1.4	3.0
10 - 19	3	1	39	0.8	1.0	0.3	0.4	10.7	15.8
20 - 29	9	9	75	2.5	4.2	2.5	2.9	20.5	22.1
30 - 39	24	12	49	6.6	6.6	3.3	5.7	13.4	16.8
40 - 49	27	32	27	7.4	8.7	8.8	8.0	7.4	9.5
50 - 59	43	50	23	11.8	11.4	13.7	13.2	6.3	6.9
60 - 69	38	56	21	10.4	13.2	15.3	14.0	5.8	5.1
70 - 79	28	38	17	7.7	10.6	10.4	12.5	4.7	3.4
80 - 89	22	27	15	6.0	9.3	7.4	10.3	4.1	2.7
90 - 99	25	20	15	6.8	6.9	5.5	7.8	4.1	2.3
100 - 109	14	18	19	3.8	5.3	4.9	5.3	5.2	1.8
110 - 119	20	13	8	5.5	4.5	3.6	3.8	2.2	1.4
120 - 129	18	13	10	4.9	2.9	3.6	3.3	2.7	1.4
130 - 139	11	15	4	3.0	2.7	4.1	2.5	1.1	0.9
140 - 149	18	7	3	4.9	1.8	1.9	1.8	0.8	0.8
150 - 159	9	8	8	2.5	1.9	2.2	1.6	2.2	0.4
160 - 169	12	7	6	3.3	1.3	1.9	1.4	1.6	0.5
170 - 179	8	9	4	2.2	1.0	2.5	0.8	1.1	0.2
180 - 189	3	6	3	0.8	0.8	1.6	0.8	0.8	0.5
190 - 199	11	8	5	3.0	0.6	2.2	0.7	1.4	0.4
200 +	22	16	9	6.0	5.2	4.4	3.1	2.5	4.0
Days omitted	0	0	0	..	..	..	..	..	..

The average values of the diurnal inequality ranges for the year and seasons for the period 1932-42 (not the values of the range of the representative mean diurnal inequalities for this period) are given in Table IV along with the 1943 values expressed as a percentage of the average values. The units employed are 1γ for force and $1'$ for declination.

TABLE IV - AVERAGE RANGE OF DIURNAL INEQUALITY 1932-42
WITH 1943 AS PERCENTAGE OF THIS

		All days			International quiet days			International disturbed days		
		V	H	D	V	H	D	V	H	D
		γ	γ	'	γ	γ	'	γ	γ	'
Year	1932-42	25.4	36.9	8.54	12.8	33.6	8.17	71.7	52.1	11.47
	1943(%)	132	91	89	100	82	86	110	90	99
Winter	1932-42	19.5	18.5	6.70	5.6	15.7	4.23	61.0	28.8	10.86
	1943(%)	106	101	100	132	78	102	92	133	107
Equinox	1932-42	32.1	42.6	10.02	13.9	38.8	9.56	94.5	72.8	14.56
	1943(%)	130	90	89	111	93	86	97	76	86
Summer	1932-42	29.8	58.0	11.66	20.8	49.2	11.37	71.6	82.2	12.69
	1943(%)	131	99	82	81	86	85	134	101	81

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

Irregular changes in declination. - In connexion with the supply of declination data to mine surveyors it has been the practice to classify the hourly periods between the exact hours G.M.T. into four groups according to the range in declination within each period. The range limits which were adopted in consultation with representative mine surveyors are: less than $5'$, between $5'$ and $15'$, between $15'$ and $30'$ and greater than $30'$. The range is less than $5'$ in about 85 per cent. of the hourly periods. The actual frequencies of occurrence in the last three of the four divisions mentioned are set out below. A range of $30'$ is equivalent to a change of 144γ in the component of horizontal force perpendicular to the magnetic meridian.

Number of cases per month, 1943

Range interval	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
5-15'	62	48	82	87	92	66	117	192	172	211	134	101	1364
15-30'	6	6	14	11	8	1	5	32	25	31	44	22	205
>30'	4	0	1	0	0	0	0	9	2	3	4	1	24

Hourly distribution, 1943

Range interval	Hour (G.M.T.) ending at																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5-15'	77	79	81	61	46	43	33	39	20	38	35	42	46	37	41	44	57	63	56	73	89	87	89	88
15-30'	10	13	6	3	0	1	3	1	0	0	0	0	0	2	6	9	20	20	20	28	20	14	17	12
>30'	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	2	6	2	3	3	0	3

Principal disturbances. - Particulars of the principal magnetic disturbances recorded during the year are given in Table V. Corresponding information for the same disturbances is given in the Lerwick Section. The magnetograms for the most highly disturbed days are not reproduced in this volume, but photographic copies may be obtained on application to the Director, Meteorological Office, Air Ministry, Kingsway, London, W.C.2.

TABLE V - PRINCIPAL MAGNETIC DISTURBANCES RECORDED AT ESKDALEMUIR, 1943

No.	From		To		Horizontal force					Declination					Vertical force				
	d. h. m.		d. h. m.		Max.	Time	Min.	Time	Range	Max.	Time	Min.	Time	Range	Max.	Time	Min.	Time	Range
1	Jan. 4 7		Jan. 5 4		556	4 21 10	430	4 17 19	126	50.5	4 16 29	10.0	4 17 40	40.5	1151	4 17 37	1031	5 2 48	120
2	Jan. 20 8		Jan. 23 3		642	21 21 38	338	20 21 50	304	44.8	21 2 12	-16.1	20 21 8	60.9	1294	20 19 33	1013	22 0 54	181
3	Feb. 16 17		Feb. 18 5		606	17 20 48	386	17 11 6	220	50.3	17 8 58	15.3	17 20 33	35.0	1108	17 11 38	1021	17 5 32	87
4	Mar. 15 1		Mar. 17 2		578	16 23 41	408	16 10 31	170	45.1	16 10 56	10.1	16 20 31	35.0	1098	16 20 29	1009	17 0 3	89
5	Mar. 19 6		Mar. 21 3		567	19 20 51	467	20 15 19	100	45.0	20 13 49	-0.8	20 18 36	45.8	1125	20 18 36	1043	19 10 41	82
6	Mar. 22 14		Mar. 24 2		555	23 20 11	431	23 2 28	124	42.6	22 15 25	14.3	22 21 32	28.3	1090	22 16 33	926	23 1 22	164
7	Mar. 29 9		Mar. 30 9		657	29 18 41	328	29 22 12	329	47.8	29 15 31	-8.8	29 21 52	56.6	1099	29 20 7	888	29 22 6	211
8	Apr. 2 21		Apr. 7 7		682	4 19 1	403	3 1 43	279	46.9	7 2 35	13.9	3 3 23	33.0	1165	5 16 48	953	3 1 49	212
9	Apr. 9 22		Apr. 12 2		582	10 19 46	420	11 7 29	162	48.8	11 6 13	11.8	10 19 40	37.0	1140	10 19 38	938	11 4 43	202
10	Apr. 20 4		Apr. 21 22		620	21 0 8	440	21 11 17	180	46.8	21 13 17	20.8	21 19 29	26.8	1113	21 19 23	1013	21 2 18	100
11	Apr. 25 15		Apr. 27 4		576	26 20 58	413	26 2 30	163	40.6	26 12 10	12.4	26 1 55	28.2	1128	26 17 55	926	26 2 55	202
12	Apr. 29 20		May 4 3		604	1 17 41	374	1 6 30	230	50.2	1 6 45	15.9	3 23 2	34.3	1147	1 18 39	951	2 0 8	196
13	May 14 21		May 19 9		689	17 20 42	421	18 2 42	268	45.6	19 4 35	17.9	17 21 23	27.7	1118	16 20 10	948	15 3 8	170
14	May 23 10		May 26 5		591	24 17 42	435	24 2 8	156	41.5	24 17 43	17.7	24 1 36	23.8	1135	24 18 32	939	24 2 18	196
15	June 19 9		June 25 3		627	24 16 59	440	22 8 6	187	44.1	21 14 11	15.4	20 1 27	28.7	1122	21 17 39	997	20 1 54	125
16	July 4 9		July 7 8		661	5 18 53	392	6 10 44	269	47.1	6 2 32	10.4	5 22 38	36.7	1141	4 17 22	997	5 2 0	144
17	July 7 21		July 14 2		685	9 18 14	385	9 7 50	300	43.0	9 7 20	17.8	9 18 8	25.2	1133	9 18 4	1013	10 3 46	120
18	July 29 23		Aug. 5 23		640	1 18 4	446	1 12 23	194	43.2	30 12 57	17.8	31 21 28	25.4	1145	2 18 18	1007	3 1 11	138
19	Aug. 8 0		Aug. 10 7		722	8 17 40	55	9 0 6	667	47.0	8 17 44	-3.8	9 0 9	50.8	1326	8 15 30	797	9 0 10	529
20	Aug. 12 20		Aug. 18 20		673	14 19 58	398	16 11 1	275	47.3	13 13 6	3.5	13 21 40	43.8	1135	18 16 58	998	17 2 5	137
21	Aug. 19 5		Aug. 21 15		624	19 20 23	407	20 10 45	217	44.3	19 15 22	9.0	19 20 20	35.3	1148	19 17 53	980	20 0 46	168
22	Aug. 28 10		Sept. 6 3		642	30 20 33	156	31 4 30	486	69.3	31 4 40	-3.8	30 20 31	73.1	1278	31 16 13	738	31 5 3	540
23	Sept. 8 5		Sept. 15 1		625	9 21 4	418	10 10 43	207	42.2	9 21 13	6.2	8 21 35	36.0	1163	8 18 24	961	10 1 13	202
24	Sept. 26 4		Oct. 5 5		615	2 18 31	367	30 11 41	248	46.1	2 23 43	-4.8	29 19 4	50.9	1194	29 17 59	965	2 1 36	229
25	Oct. 7 1		Oct. 10 20		619	9 20 12	417	8 11 50	202	46.5	9 8 6	1.3	10 16 35	45.2	1142	10 16 32	1037	9 4 53	105
26	Oct. 23 21		Nov. 2 2		632	29 18 52	392	24 10 12	240	51.3	26 6 30	-3.4	29 18 48	54.7	1198	26 14 7	965	28 3 8	233
27	Nov. 6 10		Nov. 8 2		588	6 22 37	425	6 17 20	163	36.7	6 15 34	-17.3	6 17 40	54.0	1223	6 17 40	1043	6 22 53	180
28	Nov. 19 2		Nov. 30 2		649	19 23 16	334	23 21 44	315	45.8	26 20 43	-7.4	25 18 59	53.2	1192	26 15 16	937	27 0 0	255
29	Dec. 2 14		Dec. 5 22		587	3 19 12	454	2 16 7	133	37.6	3 14 24	4.1	2 19 51	33.5	1170	2 19 49	1057	4 0 10	113
30	Dec. 15 20		Dec. 23 1		615	20 23 48	389	19 17 52	226	44.8	16 13 36	-15.9	19 17 57	60.7	1175	16 18 18	1033	21 23 25	142
31	Dec. 31 14		Jan. 1 3		580	31 22 35	466	31 19 35	114	38.9	31 16 9	-0.2	21 22 56	39.1	1164	31 19 14	1075	31 24 0	89

Where the beginning of a disturbance has been marked by a "sudden commencement", the serial number is followed by an asterisk (*), and the time entered in the second column is that of the sudden commencement, estimated to the nearest minute. In other cases, the exact hour nearest the time at which disturbance may be regarded as having begun is entered in the second column. To the tabulated values of maximum and minimum the following have to be added: - H, 16000γ; D, 12°; V, 44000γ.

REMARKS ON MAGNETIC AND ALLIED PHENOMENA, 1943

GENERAL: - Conditions were unusually disturbed magnetically for a year immediately preceding a minimum of solar activity. In the notes which follow, the sunspot data have been extracted from an article in the "Observatory" for May 1944.

The abbreviation C.M.P. is used for Central Meridian Passage.

JANUARY (average character figure 0.35). - There was a decrease of activity from December 1942 to January 1943. Both months had one day of character figure 2, but the average for December (0.42) somewhat exceeded that of January.

A slight disturbance between 1d.19h. and 2d.2h. and slight activity in the following two days preceded a moderate disturbance which lasted from about 4d.7h. to 5d.4h. The value of H was rather low at 11-12h. and 17-18h. Its range was 126γ. The chief feature in D was a marked bay with its minimum at 4d.17h.40m. The range was 40.5'. There was a fairly well-marked peak in V at 17h.37m. Between this and the minimum at 5d.2h.48m. V decreased by 120γ.

The period 6th-16th had little activity and there were several exceptionally quiet days.

This spell was broken by a moderate disturbance starting with a sudden commencement at 17d.2h.32m. and lasting until about 18d.1h. The value of H fell between 10 and 12h. and thereafter some oscillation was superposed on its gradual recovery. The D trace was higher than on the quiet days until shortly after 17h. It then fell until 20h. but returned to about normal by 21h. There was a moderate peak in V accompanying the maximum of D. The ranges were 96 γ in H, 29.5' in D and 97 γ in V.

The most disturbed period of the month followed. This lasted from 20th to 23rd after two days of relative quiet. It included a storm-type disturbance on 20th-21st and several isolated oscillations thereafter. The main disturbance began at about 20d.8h. and was past by midnight, the values becoming about normal again by 21d.5h. In H and D the chief feature was a decrease during the period 17h.-22h. with considerable oscillation. It was more marked in D than in H. The maximum of H was recorded at 19h.1m. in one of the oscillations and the minimum at 21h.50m., the range being 214 γ . The minimum of D was at 20d.21h.8m. and the maximum an isolated one at 21d.2h.12m. not much above the values of the previous afternoon. Between these D had a range of 60.9'. In the case of V the trace rose slowly until about 17h. then more rapidly till 18h., remained high with some oscillation until between 20h. and 21h. and dropped again shortly after 21h. The minimum was not reached however until 21d.2h.58m. The maximum occurred in a peak at 20d.19h.33m. and the range covered was 275 γ . On the following night there were two outstanding isolated peaks in the trace of H; the first showed an increase of about 155 γ shortly before 21d.22h. and the second an increase of about 120 γ shortly before 22d.1h. There were simultaneous smaller deviations in the other two traces. Later on, at about 22d.18h. there was a bay of some 25' in D, accompanied by smaller changes in H and V. For the remainder of the month conditions were either quiet or only slightly disturbed.

FEBRUARY (average character figure 0.50).— Like January (and December) this was a quiet month. There was only moderate disturbance for two short periods, 16th-17th and 25th-27th.

Activity remained mainly very slight during the first sixteen days of the month. The beginning of a moderate disturbance which occurred during 16th-18th may be placed at about 16d.17h. In H the trace was marked by serrations, a fairly steep descent and recovery associated with the minimum at 17d.11h.6m. and a fairly sharp isolated peak at 17d.20h.48m., the range being 220 γ . Values had returned to about normal again soon after midnight. The disturbance in D and V roughly corresponded with that in H but was not so marked. The ranges were 35' and 87 γ .

There was no further marked activity until 25th. On this day moderate variations in H and D began at about 18h. and both elements were below their usual values until about 26d.6h. The V trace rose gradually to a peak at 25d.19h.47m. and then descended slowly to its minimum which was reached at 26d.2h.13m., the minima of H and D occurring about the same time. The ranges in H, D and V were respectively 73 γ , 33.1' and 138 γ . There was some oscillation on the following day, but conditions were almost quiet again on 27th-28th.

MARCH (average character figure 0.71).— There was considerably more activity in general than during the preceding months and in addition a small storm occurred on the 29th.

The first two days of the month were quiet apart from a slow fall and recovery in H between 7h. and 12h. on 2nd. Slight activity set in on 3rd and finally increased to moderate on 11th-12th. There was only one outstanding feature during the period of slight activity, namely an isolated peak in the H trace between 21h. and 22h. on 4th accompanied by (less marked) decreases in D and V. The peak increased the ordinary day's range of H to 140 γ . The disturbance on 11th-12th included some increase of the diurnal variation, a moderate increase and decrease in V from about 11d.18h. to 12d.5h. with reverse variations in the other two elements and a few moderate oscillations. There was also an isolated peak in the H trace at 12d.20h. which increased the range to 118 γ .

After three almost quiet days moderate activity recurred on 16th and lasted from early morning until shortly after midnight. The chief features in H were a slow fall and recovery

between 9h. and 13h., like that of March 2nd, and a peak between 23h. and 24h. The range was 170 γ . In D there was a marked bay between 20h. and 21h. which, together with an augmented diurnal increase in the middle of the day, gave a range of 35.0'. The disturbance in V was not large. A maximum accompanied the bay in D, and a minimum the peak in H, the intervening range being 88 γ .

There was slight activity during the succeeding two days increasing to moderate again on 19th-20th. The outstanding features of this period were bays in D between 21h. and 23h. on 19th and between 18h. and 20h. on 20th, the latter being much the deeper. The ranges in D on 19th and 20th were respectively 23.9' and 45.8'. The disturbance of H and V was markedly smaller. A more intense general disturbance occurred on 22nd-23rd after an interval of reduced activity on 21st. In H the most pronounced feature was moderate oscillation. In D and V the trace was considerably lower than usual during the night 22nd-23rd. The ranges were 124 γ in H (on 23rd), 28.3' in D and 164 γ in V. During the succeeding two days activity decreased and the period 25th-28th was almost quiet.

The greatest disturbance of the month was recorded on 29th. Its beginning was indefinite and there was no great variation in H until a rapid rise to a peak occurred at 29d.18h.41m. This was followed at once by an oscillatory descent, the minimum being reached at 29d.22h.12m. The greater part of the recovery was complete by 30d.3h., but values remained somewhat lower than usual until the afternoon. The range was 329 γ . In D, after a somewhat emphasized diurnal variation, there was a sudden decrease at about 29d.20h. A gradual recovery restored values to normal by about 7h. Considerable superposed oscillation occurred in the course of the night, the minimum being recorded at 21h.52m. The range was 56.6'. For V the value was somewhat greater than usual between 15h. and 22h. A rapid decrease to the minimum followed with subsequent gradual recovery and some superposed oscillations. The range was 211 γ . Moderate activity continued during the remainder of the month, the 30th having a range of 35.9' in D chiefly due to a marked bay from 20h. to 21h. This bay was accompanied by moderate peaks in the traces of H and V.

APRIL (average character figure 0.70).— The month had considerable disturbance, especially in the first eleven days. There was a greater proportion of widely spread oscillation than usual and less of the well-defined storm type.

The activity of the closing days of March continued until 8th April. On 3rd there was a marked drop and recovery in H between 1h. and 3h. with considerable variations in D and V at the same time. Moderate oscillations in H and D followed later. The resulting ranges were 176 γ , 30.2' and 169 γ in H, D and V respectively. The 4th was marked by a prominent peak in H at 19h.1m. This was followed after a quiet interval by an irregular fall to a minimum at 5d.2h.31m. The range during the night amounted to 248 γ . Corresponding, but smaller variations in D and V were recorded. Further rather isolated deviations of the traces occurred on the 5th between 15h. and 18h. There were well-marked peaks in H and V with a bay in D and the ranges for the night 5th-6th were about 150 γ in H, 27' in D and 120 γ in V. Activity continued, but on a diminishing scale during 6th-8th followed by a quiet interval on 8th-9th. Subsequently there were rather large ranges (162 γ in H, 37' in D and 202 γ in V) between 10th night and 11th morning. This ended the main disturbed period of April. The remainder of the month was mainly quiet apart from two periods of slight activity (15th-17th, 28th-30th), two of moderate activity (20th-21st and 25th-26th) and an increase again during 28th-30th. The range on 20th-21st reached 180 γ in H but was considerably smaller in D and V. On 25th-26th it was V which had the largest range, namely 202 γ , the ranges of H and D being 163 γ and 28.2'.

MAY (average character figure 0.68).— There were three main periods of moderate disturbance and no definite storms.

Some slow oscillations in H and D and rather low values of H and V from about 2h. to 7h. of May 1st were followed by well-defined disturbance later in the day. The rather serrated trace of H rose steadily from about 9h. to a peak at 1d.17h.41m; subsequently falling rather less steadily. This was repeated on a smaller scale the following day. The value of V also rose gradually, remained rather high during the afternoon and evening and fell off again to a minimum

at 2d.0h.8m. In D the variation was less marked. The ranges were 230γ in H, $31.4'$ in D and 196γ in V. There were two moderate peaks in the H trace on 3rd at about 17h. and 23h. with accompanying but smaller variations in D and V; otherwise activity was decreasing and the 7th-9th was quiet.

Movement increased again during 10th-12th, becoming moderate on 13th. This introduced a disturbed period lasting until 20th. There were moderate oscillations in H and D on 15th accompanied by a decided decrease and recovery of V between 14d.23h. and 15d.7h., which gave a V range of 152γ for the 15th. Renewed moderate oscillation in H on 16th was followed by the climax of the period on 17th-18th. The chief features in H were a marked isolated peak at 17d.20h.42m. following a somewhat irregular diurnal increase, a minimum at 18d.2h.42m., and slow moderate oscillations. The trace of D showed similar but smaller variations, while V gave a rather lumpy descending trace from a somewhat higher value than usual at 17d.17h.49m. to the minimum at 18d.3h.4m. The ranges were 268γ in H, $24.0'$ in D and 139γ in V. Oscillation decreased during the 19th and the period 20th-22nd was quiet.

Slight activity recurred on 23rd. Marked isolated falls and recoveries of about 120γ in H, 130γ in V and a rise of $17'$ in D were recorded between 1h. and 3h. on 24th. The ranges reached 156γ in H and 196γ in V. Moderate oscillations with amplified diurnal variations characterized the period 24th-26th, and the oscillation was somewhat intensified on 27th-28th, the ranges on the latter day being 146γ in H, $23.1'$ in D and 121γ in V. The remaining days of the month were almost quiet.

JUNE (average character figure 0.57).— This was a noticeably quiet month with two main periods of moderate activity and no major disturbance at all.

The first six days of June were almost quiet. Moderate oscillations were then recorded daily until the 14th. There was nothing outstanding, but simultaneous variations of about 80γ in H, $18'$ in D and 80γ in V between 1h. and 3h. on 13th were rather similar to those of 24th May. The ranges reached 118γ in H, $23.9'$ in D and 112γ in V on 13th. A quiet spell then set in until the 19th.

Following on the quiet spell there was a period from 19th to 25th with disturbance rather similar to that of 7th-14th. There were no very outstanding features and the greatest ranges in H, D and V respectively were 172γ , $28.6'$ and 106γ on 19th-20th, 170γ , $21.9'$ and 88γ on 21st-22nd and 169γ , $17.2'$ and 78γ on 24th-25th. Two days of only slight activity intervened between this period and renewed disturbance of the same type (ranges 149γ in H, $19.8'$ in D and 54γ in V) on 28th. The last two days of the month were quiet.

JULY (average character figure 0.61).— The month was moderately disturbed with major ranges during the period 3rd-14th. Of two minor periods the second was the early part of a major disturbance belonging to August.

The quiet conditions at the close of June lasted until July 2d.23h. Slight disturbance on 3rd increased on 4th and was rather more than moderate on 5th-6th. The chief maximum in H was at 5d.18h.53m. and the chief minimum at 6d.10h.44m., giving a range of 269γ . Corresponding data for D are 6d.2h.32m., 5d.22h.38m., $36.7'$ and for V 4d.17h.22m., 5d.2h.0m. and 144γ . Individual oscillations decreased during the night 6th-7th, and perhaps 7d.8h. may be given as the end of the period. There was however only a short break until about 7d.21h. The disturbance marking the next period until about 14d.2h. was of similar rather undefined type. The times of maxima and minima and the values of the ranges were as follows: in H, 9d.18h.14m., 9d.7h.50m., 300γ , in D 9d.7h.20m., 9d.18h.8m., $25.2'$, V 9d.18h.4m., 10d.3h.46m., 120γ . After this, apart from a quiet interval from 24th to 26th, conditions were slightly disturbed for the most part until the last two days of the month. On these moderate oscillations were recorded.

AUGUST (average character figure 0.94).— August was rather persistently disturbed though without very large ranges, the greatest being 667γ in H.

The period of activity which started late on 29th July lasted with little interruption until 10th August. Two parts of this period may however be distinguished, the first ending about 5d.23h. and the second beginning about 8d.0h. In the first part the disturbance was rather more than moderate, recurring from day to day with no very defined character. The main maximum in H was recorded at 1d.18h.4m. and the minimum at 1d.12h.23m., the range being 194γ . Corresponding data for D and V were: July 30d.12h.57m., 31d.21h.28m. $25\cdot4'$ and 2d.18h.18m., 3d.1h.11m. and 138γ . In the second part there was a definite storm giving ranges of 667γ in H, $50\cdot8'$ in D and 529γ in V. The maxima and minima occurred respectively at 8d.17h.40m. and 9d.0h.6m. in H, 8d.17h.44m. and 9d.0h.9m. in D and 8d.15h.30m., 9d.0h.10m. in V. Minor oscillation set in at about 8d.0h. in H and the forenoon minimum was somewhat emphasized. A fairly rapid increase from noon until 15h. then led to moderate oscillations. The maximum was recorded during these and was followed immediately by an oscillatory decrease to the minimum at midnight. The trace was back to normal temporarily by 9d.6h. but appreciable disturbance continued until about 10d.7h. The changes in V were well defined - a quick increase to a single maximum (which was accompanied by a minor maximum in H and a minimum in D) followed at once by a fairly regular decrease to the minimum and a similarly fairly regular recovery. The variations in D were mainly below the normal, contrasted with the more even distribution in H and V, and the main maximum and minimum were approached by others which accompanied less pronounced oscillations in H and V.

Some three days of quiet conditions followed but were succeeded by disturbance of the undefined type renewed from day to day from 13th to 21st. This period also may be divided into two parts, the first from about 12d.20h. to 18d.20h. and the second from 19d.5h. to 21d.15h. The first period had a range 275γ in H between a maximum at 14d.19h.58m. and minimum at 16d.11h.1m., and corresponding data for D and V were respectively $43\cdot8'$, 13d.13h.6m., 13d.21h.40m., and 137γ 18d.16h.58m., 17d.2h.5m. During the second period the ranges were 221γ in H between 19d.20h.23m. (maximum) and 18d.10h.11m., $35\cdot3'$ in D between 19d.15h.22m. and 19d.20h.20m., and 168γ in V between 19d.17h.53m. and 20d.0h.46m.

The quiet conditions succeeding the 21st lasted two days. They were followed by moderate disturbance from 23rd to 26th and, then after another quiet day, by two days of more than moderate disturbance preceding a storm on 30th-31st. In H the main part of this storm comprised a temporary rise to a peak on 30th afternoon followed by fairly normal but oscillatory values until 20h. The main peak then occurred at 30d.20h.33m. introducing noticeably slower and larger oscillations as the trace descended to its principal minimum at 31d.4h.30m. The range was 486γ . The slow oscillations ceased at 7h. After a further minimum at 10h. the trace rose fairly quickly as on the previous forenoon attaining in the afternoon and evening a higher average and only slightly less marked peaks than on 30th. The D trace was generally similar to that of H, maximum of W declination accompanying minima in H. The range was $73\cdot1'$ between the maximum at 31d.4h.40m. and the minimum at 30d.20h.31m. In V the principal maximum and minimum occurred at 31d.16h.13m. and 31d.5h.3m. respectively, the range being 540γ . There was a comparable maximum on 30th, but the minimum on September 1st was not so decided.

SEPTEMBER (average character figure 0.83). - In this month disturbance was frequent but not strong. The greatest ranges were 230γ in H and 199γ in V in the last two days.

Activity associated with the storm of 30th-31st August remained moderate or rather more than moderate until 6th-7th September which was an almost quiet period. A large sunspot (C.M.P. 6d.1h.) was present at this time. Fresh disturbance set in at about 7d.5h. and continued with little break until 15d.1h. Disturbance somewhat exceeding moderate on most days recurred from day to day and over-all ranges were recorded as follows: 207γ in H between 9d.21h.4m. (maximum) and 10d.10h.43m., $36\cdot0'$ in D between 9d.21h.13m. and 8d.21h.35m. and 202γ in V between 8d.18h.24m. and 10d.1h.13m.

From 15th to 26th conditions were in the main slightly disturbed. There were only two outstanding features, namely, more than moderate slow deviations of the trace between 18d.21h. and 18d.24h. and moderate ranges on 21st. In the early afternoon of the 26th disturbance exceeding moderate set in again and was renewed with increased strength on succeeding days.

On 29th-30th at its greatest intensity its general character resembled that of the early part of the month. The activity overlapped the end of September and there were ranges on 2nd-3rd October comparable with those of 29th-30th September. The chief maximum and minimum in H occurred at 2d.18h.31m. and 30d.11h.41m., giving a range of 248 γ , in D at 2d.23h.43m. and 29d.19h.4m. with a range of 50.9' and in V at 29d.17h.59m. and 2d.1h.36m. with a range 229 γ .

OCTOBER (average character figure 0.74).— This month had appreciably less frequent and somewhat less strong disturbance than September. The greatest ranges were rather over 200 γ in H and V and 49' in D.

The disturbance of late September remained marked until 3rd October with ranges of 218 γ in H, 49.0' in D and 205 γ in V during 2nd-3rd. Residual slight disturbance disappeared on 6th but fresh activity set in on 7th and increased to give ranges of 202 γ in H, 38.8' in D and 105 γ in V during 8th-10th. Conditions were quiet from 12th to 16th and quiet or only slightly disturbed until 22nd, though a somewhat marked isolated deviation in D and V at 20d.18h. to 20h. should be noted. After moderate oscillations on 22nd and relative quiet on 23rd disturbance of the rather undefined type, somewhat exceeding moderate, continued from 24th until the end of the month. During this period the maximum value of H was recorded at 29d.18h.52m. and the minimum at 24d.10h.12m., the range being 240 γ . Similar data for D are 26d.6h.30m., 29d.18h.48m. and 54.7', and for V 26d.14h.7m., 28d.3h.8m. and 233 γ .

NOVEMBER (average character figure 0.73).— The month was rather quiet until 19th and thereafter moderately disturbed.

The activity of late October terminated with some moderate oscillation on 1st November. This was followed by quiet or almost quiet days until 6th on which day there was a well-defined disturbance between about noon and midnight giving a range of 163 γ in H between a maximum at 6d.22h.37m. and a minimum at 6d.17h.20m. Corresponding figures were 6d.15h.34m., 6d.17h.40m. and 54.0' for D and 6d.17h.40m., 6d.22h.53m. and 180 γ for V. There was some disturbance also until 9th. From then on, apart from a moderate bay in D at 19h. to 22h. on 10th, and less marked deviations in H and V which accompanied it, conditions were mainly quiet until 19th.

At 19d.2h. the traces became disturbed again and remained so in varying degree until the last day of the month, which was quiet. During this period three parts may be distinguished. The first had its greatest ranges during 19th-20th namely 272 γ in H, 43.1' in D and 121 γ in V. Isolated oscillations in H and D shortly before midnight were a good deal responsible for this range. The most disturbed day of the second part was 23rd between about 15h. and 24d.2h. The ranges then were 269 γ in H, 41.0' in D and 166 γ in V. This part was not so distinctly separated from the third which was more marked in D and V than in H and culminated on 25th-26th with ranges of 195 γ in H, 53.2' in D and 255 γ in V. Activity remained considerable in H and D until 29th, but the 30th was quiet throughout.

DECEMBER (average character figure 0.55).— This was a notably quiet month with only one period of at all marked activity.

There was some slight disturbance on 1st and this increased to moderate from 2nd to 4th. The range reached 33.5' in D, but was under 150 γ in both H and V. After this, quiet or only slightly disturbed conditions prevailed until 16th. The principal part of this second period lasted until 22nd after which the oscillations were inconsiderable. The disturbance was generally of the rather undefined type with a tendency to isolated peaks and troughs. The range in H was 226 γ between a maximum at 20d.23h.48m. and a minimum at 19d.17h.52m., that in D being 52.8' between 20d.0h.48m. (maximum) and 19d.17h.57m., and that in V 137 γ between 19d.17h.56m. and 21d.23h.25m. The very marked isolated minimum in D at 19d.17h.57m. seems worth special mention. There was a similar (less pronounced) feature on each of the evenings 17th to 20th and it could be distinguished for several days afterwards. During this period of disturbance a large sunspot had its C.M.P. at 20d.0h. Following on the above-mentioned disturbance, slight activity continued until 26th, but there was very little thereafter until moderate slow deviations in the traces of D and V followed by a marked bay in D between 31d.22h. and 24h.

PRESSURE AT STATION LEVEL

69

Maximum, minimum and daily mean values in millibars for each day 0h. to 24h., G.M.T.

The initial 9 or 10 of the values is omitted, i.e. 1005·61 is printed 05·61

80 ESKDALEMUIR: h_b (height of barometer cistern above M.S.L.) = 237·3 m.

1943

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	<i>millibars</i>																	
1	75·2	54·1	64·1	60·9	49·0	54·7	10·1	05·0	08·0	95·0	76·0	85·7	97·3	90·0	94·1	74·5	66·2	69·6
2	81·0	69·1	73·1	72·9	60·9	67·0	05·0	02·9	03·9	00·0	95·0	98·2	97·1	93·5	95·2	71·3	64·7	66·8
3	87·9	80·9	85·6	80·9	72·9	76·7	06·0	02·5	04·7	01·5	99·0	00·1	04·2	96·3	01·2	86·9	71·3	79·9
4	87·1	82·3	84·6	91·1	80·9	87·5	02·5	93·4	96·7	99·3	88·2	93·9	04·3	93·7	00·2	88·0	80·9	85·0
5	82·3	79·0	80·6	88·2	63·0	77·1	04·0	96·5	01·0	88·2	70·3	77·1	93·7	80·7	86·4	87·9	80·7	83·5
6	81·5	77·5	78·9	81·5	62·9	72·0	03·7	01·5	02·9	91·4	76·2	85·1	80·7	72·7	77·1	94·8	87·9	91·6
7	87·6	81·5	85·0	97·6	81·5	93·7	03·7	93·2	00·1	96·5	71·9	83·7	72·8	60·5	68·2	94·6	86·4	90·9
8	89·6	87·6	88·7	96·5	60·0	80·4	93·2	81·8	85·7	97·0	88·6	93·5	60·5	45·5	49·7	88·9	85·8	87·1
9	89·2	74·4	83·6	70·7	58·1	63·3	92·8	87·8	90·4	91·3	88·1	89·9	65·8	50·4	61·3	89·6	88·9	89·3
10	76·4	70·1	74·2	78·6	70·0	72·7	87·8	78·0	82·2	90·5	89·4	90·1	67·8	56·5	61·8	90·7	89·3	90·0
11	70·1	53·5	60·1	82·2	78·6	80·6	91·3	78·9	83·5	91·4	88·0	90·2	82·8	67·8	77·8	90·6	84·5	87·7
12	55·6	47·6	50·1	81·0	71·3	76·6	95·0	91·3	93·5	90·8	86·6	88·4	90·1	78·3	82·7	88·1	84·6	86·0
13	59·9	55·6	58·5	92·5	81·0	87·5	94·3	92·5	93·4	91·8	87·8	90·2	90·1	86·9	88·3	88·1	84·1	85·8
14	66·4	58·3	60·8	84·1	71·1	80·1	93·3	86·4	90·4	89·2	85·7	87·8	03·6	89·2	96·4	84·1	79·3	81·1
15	78·3	66·4	73·8	83·7	69·2	73·9	86·4	79·8	82·0	93·6	85·6	88·9	10·1	03·5	07·4	79·3	76·9	77·9
16	78·4	73·7	75·9	06·1	83·7	99·5	87·4	82·6	85·1	97·6	93·6	96·1	11·0	08·9	09·7	85·7	78·8	82·2
17	77·7	66·3	71·2	06·0	00·2	03·0	94·7	87·4	91·3	95·8	84·1	89·4	09·0	04·0	06·6	89·6	85·6	87·9
18	81·2	77·7	80·0	07·2	01·7	05·1	95·5	93·1	94·5	84·8	74·1	78·7	04·0	97·0	00·4	89·4	75·4	80·6
19	79·8	75·0	77·9	05·0	00·8	02·5	94·4	90·5	92·0	85·7	75·9	79·2	97·0	90·2	92·9	78·0	76·3	77·3
20	75·0	66·3	70·6	06·3	03·0	04·5	92·1	89·2	90·2	88·9	85·7	87·7	93·7	91·3	92·4	76·8	74·9	75·8
21	74·1	61·1	67·8	03·3	99·1	01·2	94·4	91·8	92·9	88·5	75·1	83·7	93·6	89·6	91·9	93·4	75·1	85·7
22	78·9	73·9	75·7	99·1	95·7	97·0	94·6	89·3	92·6	75·3	69·3	71·5	89·6	76·1	83·2	93·4	88·1	91·2
23	94·3	78·9	86·5	96·6	92·9	94·6	89·3	83·7	86·1	75·4	68·2	72·0	81·2	76·0	78·9	98·7	88·5	92·9
24	94·5	85·7	91·1	95·5	90·0	93·7	84·0	81·7	82·6	83·6	68·7	78·2	80·7	76·3	78·0	99·0	93·0	97·1
25	85·7	78·3	80·7	95·6	81·9	87·4	82·4	77·8	80·4	73·3	59·5	68·8	89·3	78·6	83·6	98·4	91·9	94·1
26	90·1	79·8	84·6	05·0	95·6	01·4	79·8	76·7	78·2	87·9	57·9	75·7	91·4	88·5	89·8	02·3	98·4	00·8
27	90·8	79·3	86·6	06·6	04·1	05·5	83·8	77·1	80·1	88·0	84·4	86·4	97·4	91·0	94·7	03·4	01·9	02·6
28	79·3	62·2	72·4	10·2	03·7	05·9	89·1	83·6	87·3	90·1	86·7	88·2	97·8	96·6	97·3	04·0	02·9	03·3
29	65·8	60·4	63·0				87·7	71·2	77·1	89·8	83·1	87·1	97·5	89·8	94·3	03·9	01·3	02·3
30	60·4	45·8	51·9				72·1	61·9	68·1	90·0	82·2	85·3	89·8	84·5	85·9	02·0	98·1	99·6
31	55·4	39·0	47·1				76·1	71·0	74·5				86·5	74·5	81·0			
Mean	78·37	69·07	73·71	92·32	81·53	87·33	92·47	86·45	89·38	90·07	80·83	85·70	91·30	83·17	87·36	90·51	84·72	87·51

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	millibars																	
1	98·7	96·9	98·0	77·2	69·9	73·5	85·7	79·7	81·6	83·8	73·4	79·1	89·2	83·5	85·9	92·3	77·6	88·5
2	98·1	95·5	96·7	83·1	69·4	76·6	89·7	79·5	84·0	91·2	76·2	85·9	92·0	88·9	90·7	79·0	69·0	72·3
3	95·6	90·9	93·3	86·7	82·9	85·3	95·1	89·7	93·0	91·0	80·1	86·2	01·6	92·0	97·0	97·0	79·0	90·0
4	90·9	86·2	87·8	85·9	79·1	83·2	94·5	81·6	89·5	81·4	76·0	78·7	03·3	01·1	02·1	98·0	95·8	97·0
5	87·6	79·0	84·4	79·1	73·9	75·6	81·6	75·6	77·6	80·2	64·0	70·7	01·1	86·3	93·8	96·4	94·9	95·5
6	79·0	72·8	74·5	87·3	77·7	83·1	82·8	74·4	77·2	80·3	63·3	69·7	87·6	81·8	84·2	95·3	92·8	93·9
7	80·2	75·5	77·5	87·4	78·3	84·6	85·0	82·4	83·5	92·8	80·3	88·1	91·1	87·6	89·6	93·1	88·3	91·3
8	82·9	79·8	81·3	78·3	75·2	76·4	91·9	85·0	88·8	92·1	88·1	90·1	91·6	84·4	86·9	91·2	87·6	89·6
9	83·4	78·1	80·7	87·8	77·1	83·9	92·3	90·3	91·4	94·0	91·0	92·7	97·5	91·6	94·8	94·5	90·6	91·9
10	83·6	75·6	80·4	87·3	78·2	81·7	90·6	88·4	89·2	92·3	90·3	91·2	97·3	84·5	92·0	01·6	94·4	97·9
11	75·6	69·7	72·6	88·2	79·8	84·3	89·4	87·2	88·5	95·0	89·2	92·1	94·5	81·6	90·6	04·6	01·6	03·0
12	71·5	68·5	70·4	88·7	78·7	86·3	87·2	81·4	84·7	94·1	85·2	88·0	81·7	72·6	77·8	09·0	03·9	06·1
13	85·9	68·8	77·0	78·7	72·1	73·8	81·4	70·8	76·0	92·7	87·3	90·0	72·6	60·0	64·4	09·0	04·9	06·7
14	86·3	78·0	83·1	82·7	73·6	77·9	78·7	70·5	73·6	92·5	87·6	91·2	74·3	62·8	69·3	08·4	05·0	06·9
15	84·1	76·4	78·4	90·4	82·7	87·3	82·7	78·7	80·7	89·6	79·4	85·5	87·5	74·3	82·2	08·2	00·9	04·3
16	94·8	84·1	90·4	95·8	88·1	91·4	87·6	79·8	85·4	79·4	68·1	72·7	91·3	87·4	88·8	00·9	88·2	95·7
17	95·2	92·2	93·8	95·5	85·6	92·6	87·0	84·3	85·6	68·1	61·0	65·1	95·8	89·5	91·8	88·2	74·9	80·3
18	92·4	87·4	89·4	85·6	79·8	81·3	89·5	87·0	88·8	71·9	67·6	70·5	05·0	95·8	00·6	78·2	52·7	68·4
19	88·5	86·2	87·4	82·3	78·7	81·2	89·4	78·4	86·3	70·0	57·8	64·3	06·4	03·7	04·9	66·3	54·8	58·7
20	91·7	87·7	89·2	78·7	71·2	74·5	82·4	76·8	79·9	65·5	59·9	63·8	04·9	99·3	02·3	72·1	66·3	70·3
21	95·3	91·4	93·6	75·0	70·5	72·0	90·0	80·6	84·2	67·0	63·2	64·7	99·3	88·2	93·4	70·2	52·6	59·9
22	95·3	93·7	94·7	76·6	71·7	73·0	92·4	89·4	91·1	74·1	67·0	71·3	88·2	79·9	82·8	70·4	53·1	64·0
23	94·5	90·8	92·6	87·4	76·6	82·4	89·5	84·5	87·3	79·3	71·7	74·2	80·7	47·8	66·9	87·4	70·3	77·2
24	91·2	87·7	89·2	88·1	83·3	86·7	84·7	82·9	83·9	84·7	79·3	82·3	61·0	41·3	47·1	00·0	87·4	95·0
25	88·8	83·5	86·3	83·3	76·6	79·2	84·1	82·1	83·3	85·4	82·4	84·4	76·3	61·0	70·1	02·3	95·6	98·7
26	83·5	81·0	82·1	79·6	76·1	77·7	90·4	83·6	85·8	82·4	80·9	81·6	80·8	76·3	78·9	03·9	01·5	02·6
27	89·7	83·3	86·4	83·4	77·0	80·7	92·0	70·3	86·5	88·3	82·0	84·9	79·4	67·3	75·4	05·0	02·9	04·0
28	93·2	89·4	90·9	83·1	76·5	79·5	89·1	67·9	81·2	92·3	88·2	90·1	70·8	61·2	65·8	04·9	98·0	02·7
29	95·1	93·0	94·1	82·7	72·5	79·0	88·3	84·8	85·9	94·9	92·3	93·5	73·0	69·0	71·3	98·0	93·3	95·1
30	95·0	88·6	92·7	85·3	71·3	76·7	85·1	80·7	83·5	92·5	85·4	89·2	92·2	72·7	84·3	00·6	94·2	97·8
31	88·6	77·2	82·7	88·9	85·3	87·5				85·6	82·8	83·8				01·2	90·3	96·4
Mean	88·91	83·51	86·18	84·52	77·08	80·94	87·67	80·94	84·60	84·66	77·52	81·14	88·93	79·11	84·19	94·43	85·88	90·39
									Annual	88·64	80·82	84·84						

PRESSURE AT STATION LEVEL
Monthly and annual means of hourly values in millibars at exact hours, G.M.T.

81 ESKDALEMUIR: $h_b = 237.3$ m.

1943

	Hour G.M.T.																									Mean
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24	
	millibars																									
Jan.	74.96	74.73	74.59	74.37	74.03	73.75	73.45	73.30	73.26	73.22	73.19	73.18	73.00	72.83	72.82	73.03	73.39	73.65	73.84	73.99	74.11	74.17	74.30	74.25	74.14	73.71
Feb.	86.04	86.12	86.00	85.98	85.89	86.05	86.17	86.47	87.01	87.34	87.66	88.00	88.14	87.87	87.63	87.56	87.62	87.76	88.05	88.25	88.30	88.27	88.33	88.23	88.19	87.33
Mar.	90.34	90.24	89.95	89.75	89.55	89.48	89.57	89.72	89.89	89.93	89.90	89.75	89.63	89.23	88.87	88.63	88.49	88.49	88.68	88.92	89.10	89.22	89.20	89.24	89.24	89.38
Apr.	85.31	85.12	84.85	84.91	84.84	84.92	85.25	85.64	85.81	86.01	86.02	86.07	86.13	85.96	85.84	85.68	85.71	85.80	85.95	86.06	86.29	86.26	86.12	85.99	85.78	85.70
May	87.92	87.82	87.73	87.59	87.50	87.55	87.66	87.73	87.73	87.52	87.39	87.25	87.17	87.04	86.96	86.89	86.80	86.81	86.89	87.06	87.29	87.49	87.51	87.48	87.42	87.36
June	87.33	87.22	87.13	87.10	87.10	87.20	87.37	87.50	87.58	87.56	87.53	87.47	87.54	87.56	87.56	87.55	87.43	87.39	87.41	87.51	87.69	87.91	88.03	88.11	88.14	87.51
July	86.93	86.71	86.47	86.27	86.13	86.09	86.13	86.16	86.30	86.18	86.20	86.21	86.17	86.20	86.08	85.97	85.88	85.73	85.73	85.91	86.13	86.32	86.38	86.33	86.23	86.18
Aug.	80.96	80.84	80.78	80.49	80.49	80.56	80.73	80.85	80.95	80.90	80.93	80.90	80.91	80.88	80.88	80.94	80.91	80.85	80.97	81.17	81.33	81.42	81.44	81.36	81.23	80.94
Sept.	84.39	84.17	84.09	83.96	83.91	84.00	84.24	84.56	84.89	84.98	84.99	85.01	85.07	84.99	84.85	84.76	84.65	84.64	84.70	84.80	84.83	84.82	84.65	84.53	84.32	84.60
Oct.	81.32	81.23	81.13	80.98	80.91	80.91	80.93	81.17	81.37	81.49	81.43	81.40	81.25	81.04	80.81	80.76	80.68	80.88	81.10	81.22	81.31	81.41	81.38	81.33	81.33	81.14
Nov.	84.34	84.14	83.96	83.83	83.74	83.71	83.73	84.04	84.32	84.31	84.40	84.24	84.05	84.03	83.95	83.84	83.89	84.20	84.38	84.65	84.69	84.70	84.61	84.63	84.62	84.19
Dec.	90.51	90.38	90.37	90.38	90.26	90.21	90.23	90.27	90.55	90.79	90.96	90.94	90.66	90.39	90.16	90.08	90.14	90.20	90.17	90.23	90.29	90.34	90.38	90.47	90.45	90.39
Annual	85.03	84.88	84.73	84.62	84.51	84.52	84.60	84.77	84.95	84.99	85.02	85.00	84.94	84.80	84.67	84.61	84.60	84.67	84.79	84.95	85.08	85.16	85.16	85.13	85.06	84.84

The initial 9 or 10 of the value is omitted, i.e. 1001.42 is printed 01.42.

PRESSURE REDUCED TO MEAN SEA LEVEL

Monthly and annual means of hourly values in millibars at exact hours, G.M.T.

82 ESKDALEMUIR: $h_b = 237.3$ m.

1943

	Hour G.M.T.																										
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24	Mean	
	millibars																										
Jan.	03.96	03.72	03.63	03.35	03.01	02.73	02.43	02.27	02.23	02.18	02.13	02.08	01.83	01.62	01.60	01.84	02.26	02.58	02.79	02.96	03.10	03.15	03.27	03.21	03.12	02.64	
Feb.	15.13	15.25	15.14	15.12	15.03	15.21	15.34	15.66	16.21	16.47	16.75	17.05	17.13	16.84	16.56	16.51	16.58	16.79	17.12	17.35	17.41	17.40	17.49	17.39	17.34	16.42	
Mar.	19.72	19.64	19.34	19.11	18.91	18.83	18.92	19.07	19.17	19.11	18.95	18.68	18.49	18.04	17.66	17.42	17.31	17.40	17.74	18.08	18.32	18.50	18.49	18.56	18.59	18.53	
Apr.	14.23	14.01	13.73	13.82	13.76	13.84	14.17	14.51	14.56	14.69	14.64	14.62	14.66	14.44	14.30	14.14	14.21	14.38	14.62	14.83	15.13	15.16	15.02	14.91	14.72	14.44	
May	16.94	16.89	16.82	16.70	16.62	16.63	16.60	16.53	16.38	16.06	15.83	15.60	15.43	15.27	15.16	15.12	15.07	15.12	15.27	15.55	15.94	16.25	16.36	16.39	16.39	16.01	
June	15.93	15.86	15.79	15.81	15.82	15.88	15.93	15.93	15.91	15.80	15.69	15.57	15.58	15.61	15.61	15.60	15.51	15.48	15.57	15.73	16.00	16.31	16.54	16.68	16.76	15.85	
July	15.40	15.21	14.98	14.80	14.67	14.63	14.57	14.47	14.49	14.29	14.20	14.14	14.05	14.03	13.88	13.75	13.69	13.56	13.62	13.92	14.31	14.61	14.75	14.74	14.67	14.35	
Aug.	09.25	09.15	09.09	08.79	08.79	08.86	09.01	09.05	09.05	08.94	08.89	08.80	08.76	08.69	08.68	08.77	08.76	08.76	08.95	09.23	09.47	09.62	09.69	09.65	09.55	09.03	
Sept.	12.97	12.75	12.69	12.57	12.57	12.67	12.94	13.17	13.37	13.31	13.24	13.19	13.22	13.09	12.94	12.87	12.81	12.87	13.01	13.21	13.31	13.33	13.20	13.09	12.90	13.01	
Oct.	09.94	09.86	09.78	09.63	09.56	09.58	09.60	09.81	09.95	09.99	09.82	09.73	09.52	09.28	09.03	08.99	08.97	09.28	09.57	09.72	09.85	09.98	09.96	09.92	09.94	09.64	
Nov.	13.47	13.28	13.10	12.97	12.86	12.81	12.84	13.18	13.46	13.37	13.37	13.13	12.90	12.87	12.81	12.74	12.86	13.24	13.46	13.75	13.80	13.83	13.74	13.88	13.79	13.24	
Dec.	19.99	19.86	19.84	19.85	19.73	19.68	19.71	19.75	20.05	20.29	20.38	20.28	19.96	19.64	19.40	19.35	19.46	19.57	19.59	19.66	19.71	19.77	19.82	19.91	19.91	19.80	
Annual	13.91	13.77	13.58	13.53	13.43	13.43	13.48	13.59	13.71	13.67	13.62	13.53	13.42	13.24	13.09	13.05	13.08	13.21	13.40	13.62	13.82	13.95	13.99	13.98	13.94	13.55	

The initial 9 or 10 of the value is omitted, i.e. 1001.42 is printed 01.42.

The monthly and annual values of pressure reduced to mean sea level are computed from the corresponding monthly and annual means of pressure at station level and of temperature. See General Introduction to the Meteorological Tables, 1938.

TEMPERATURE

Monthly and annual means of readings in degrees Absolute at exact hours, G.M.T.

83 ESKDALEMUIR: Louvered hut: $h_t = 0.9$ m.

1943

	Hour G.M.T.																									Mean
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24	
	degrees													Absolute												
Jan.	75.20	75.24	75.26	75.30	75.17	75.05	75.06	75.03	75.04	75.09	75.27	75.64	76.21	76.58	76.64	76.37	75.95	75.58	75.40	75.25	75.14	75.20	75.31	75.38	75.21	75.47
Feb.	77.37	77.07	77.02	76.91	76.91	76.80	76.76	76.68	76.70	77.35	77.93	78.34	78.90	78.99	79.33	79.16	79.06	78.43	78.18	77.96	77.88	77.61	77.39	77.33	77.48	77.75
Mar.	75.91	75.73	75.73	75.88	75.94	75.99	75.97	75.98	76.69	77.61	78.85	79.88	80.57	80.93	81.04	80.94	80.55	79.70	78.41	77.62	77.12	76.60	76.37	76.24	75.95	77.76
Apr.	78.79	78.96	78.96	78.77	78.58	78.66	78.73	79.31	80.44	81.12	81.77	82.44	82.70	83.07	83.31	83.28	82.76	82.06	81.29	80.35	79.72	79.25	79.15	78.90	78.68	80.51
May	78.62	78.09	77.82	77.63	77.54	77.86	79.25	80.60	81.92	82.91	83.94	84.77	85.52	85.89	86.09	85.85	85.39	85.00	84.28	83.24	81.84	80.80	80.01	79.50	78.85	81.85
June	82.10	81.69	81.45	81.09	80.98	81.32	82.54	83.76	84.81	85.72	86.41	87.08	87.59	87.51	87.45	87.49	87.16	86.95	86.37	85.74	84.91	84.10	83.18	82.58	82.13	84.58
July	83.16	82.83	82.64	82.51	82.27	82.42	83.31	84.50	85.69	86.58	87.55	88.27	88.75	89.21	89.50	89.66	89.42	89.15	88.52	87.34	85.83	84.73	84.06	83.66	83.37	85.90
Aug.	83.17	83.00	83.08	83.07	83.03	83.03	83.33	84.13	85.01	85.66	86.42	87.07	87.54	87.93	88.02	87.81	87.55	86.97	86.28	85.50	84.84	84.25	83.83	83.44	83.03	85.16
Sept.	81.61	81.51	81.35	81.13	80.71	80.61	80.44	81.30	82.64	84.02	84.94	85.58	85.97	86.32	86.43	86.20	85.65	84.99	84.15	83.28	82.67	82.31	81.92	81.80	81.54	83.23
Oct.	80.43	80.26	80.07	79.97	79.94	79.81	79.79	80.11	80.71	81.54	82.51	83.12	83.65	83.89	84.04	83.92	83.32	82.34	81.71	81.44	81.12	80.79	80.69	80.62	80.43	81.49
Nov.	76.62	76.44	76.45	76.37	76.51	76.64	76.57	76.46	76.53	77.21	78.12	78.84	79.18	79.29	79.08	78.56	77.90	77.33	77.08	76.97	76.85	76.72	76.64	76.36	76.30	77.27
Dec.	75.02	75.09	75.15	75.07	75.12	75.05	75.07	75.06	74.90	75.05	75.70	76.84	76.73	77.10	77.14	76.86	76.39	75.93	75.52	75.50	75.53	75.44	75.37	75.41	75.23	75.65
Annual	78.99	78.83	78.75	78.65	78.56	78.61	78.91	79.42	80.11	80.84	81.63	82.31	82.80	83.08	83.19	83.03	82.61	82.06	81.45	80.86	80.30	79.83	79.50	79.28	79.02	80.57

TEMPERATURE

Maximum, minimum and daily mean values in degrees Absolute for each day 0h. to 24h., G.M.T.
The initial 2 or 3 of the values is omitted, i.e. 275.0° is printed 75.0°. Add 0.16° to obtain temperature
in degrees Kelvin where $T(^{\circ}\text{K.}) = t(^{\circ}\text{C.}) + 273.16$

84 ESKDALEMUIR: Louvered hut: h_t (height of thermometer bulb above ground) = 0.9 m.

1943

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	<i>degrees Absolute</i>																	
1	75.2	71.2	74.0	79.6	73.7	77.3	82.2	76.0	79.4	82.1	77.8	79.2	82.5	73.9	78.5	87.3	81.7	83.1
2	74.5	70.5	72.6	78.2	74.3	76.6	83.2	77.1	80.7	85.5	78.3	81.5	87.7	70.7	80.9	87.2	80.4	82.9
3	73.1	66.5	70.9	78.7	72.0	75.1	78.6	75.4	77.2	87.1	76.1	82.3	85.0	74.5	81.0	88.4	79.1	84.3
4	70.3	65.3	68.4	79.1	74.8	76.6	79.3	71.0	75.3	85.3	78.0	80.8	88.2	71.9	80.5	86.2	74.5	81.6
5	72.0	67.8	70.9	82.0	76.4	79.5	83.3	70.1	78.7	80.7	73.8	78.0	87.4	74.1	80.3	87.7	81.5	86.3
6	73.9	71.8	72.7	82.0	73.3	76.4	87.1	71.3	80.2	80.3	74.0	76.9	84.8	73.8	79.8	86.5	81.0	83.5
7	74.3	66.7	71.8	75.0	68.8	72.1	81.0	70.0	76.7	83.0	73.1	79.6	82.1	73.0	77.3	88.3	79.7	84.1
8	72.0	65.0	68.2	77.8	69.4	75.2	81.1	71.7	76.3	83.9	70.3	77.5	79.3	74.2	76.3	90.0	78.1	85.6
9	75.3	69.3	73.1	80.3	74.4	76.5	83.0	71.5	77.2	85.7	80.3	82.1	81.7	72.7	76.4	91.0	77.6	85.8
10	75.0	72.8	73.6	79.7	75.4	77.4	82.0	78.0	80.5	84.0	79.7	81.4	77.0	71.6	73.8	89.8	85.0	86.7
11	77.2	73.6	75.8	82.2	78.3	80.8	78.7	69.7	75.3	84.7	79.8	81.9	84.1	70.6	78.5	88.8	84.0	86.0
12	78.1	75.5	76.9	81.8	75.3	78.5	79.7	66.1	72.1	84.2	78.0	81.1	83.7	79.4	82.3	87.0	79.8	83.0
13	78.0	75.1	76.4	81.0	73.6	77.3	80.4	70.0	74.3	83.2	80.7	81.7	84.2	80.9	82.9	87.0	80.0	82.9
14	75.7	73.7	74.6	82.8	80.7	81.8	81.6	68.0	74.7	83.3	80.6	81.7	87.8	78.9	83.8	86.4	79.8	82.9
15	78.5	71.9	75.0	81.2	72.7	75.2	80.4	65.2	74.8	86.2	80.5	82.0	86.1	76.9	81.3	87.9	76.0	82.5
16	80.2	73.7	76.8	79.1	72.9	75.9	83.7	77.5	79.9	88.2	76.8	82.7	89.3	74.9	82.9	86.3	73.8	81.1
17	79.6	73.7	77.1	82.4	74.8	79.2	82.1	79.5	80.4	85.9	76.9	81.7	92.2	77.3	85.3	90.7	76.3	83.9
18	78.5	70.6	74.1	82.2	73.7	79.4	86.2	76.2	80.9	85.1	77.0	82.4	94.6	75.5	86.9	87.2	76.6	83.7
19	78.1	73.3	75.7	81.9	75.7	78.5	77.5	74.3	76.1	83.0	73.7	78.0	93.0	78.2	86.5	87.0	83.3	85.0
20	81.7	78.0	80.2	79.7	71.3	76.9	79.6	73.7	77.4	82.6	73.8	78.8	91.0	78.6	84.8	87.3	82.0	84.3
21	80.8	77.4	79.3	79.7	77.4	78.4	83.0	73.0	77.5	89.3	77.3	82.5	90.5	78.5	85.1	86.4	78.1	82.8
22	80.0	75.2	78.2	80.4	76.4	77.8	83.5	71.5	76.6	84.0	77.2	80.7	87.7	78.6	82.7	86.8	78.7	83.6
23	79.9	72.7	75.7	81.8	77.4	78.9	85.1	75.3	78.5	88.8	77.0	82.5	86.1	80.0	82.4	88.9	82.0	84.4
24	80.5	75.2	78.0	80.8	79.0	79.7	80.9	74.9	77.8	83.5	76.7	79.3	88.9	77.6	83.6	90.0	79.6	84.8
25	81.0	77.9	79.3	81.0	75.0	77.8	79.8	77.1	78.1	81.2	77.7	79.7	88.2	76.0	82.7	89.3	82.2	85.5
26	80.2	77.9	79.2	80.7	74.1	78.0	84.0	75.9	78.7	83.0	77.5	79.9	85.2	74.0	81.7	91.2	79.2	86.3
27	81.0	79.1	79.7	83.2	79.1	80.4	84.3	74.1	79.5	82.1	78.0	79.7	88.9	77.6	84.8	95.6	78.0	87.8
28	81.7	80.2	80.9	82.8	77.4	79.9	83.6	74.2	78.9	85.5	73.0	80.0	88.5	76.7	83.5	95.0	79.0	88.3
29	81.3	76.3	78.4				81.6	76.6	79.2	85.3	69.1	78.8	91.4	72.5	83.5	95.9	80.2	89.0
30	79.0	74.3	76.9				82.2	75.0	79.3	85.0	75.7	81.1	89.8	80.1	84.0	92.3	83.0	87.7
31	79.3	73.5	75.3				80.2	75.6	78.3				90.0	76.9	83.7			
Mean	77.6	73.1	75.5	80.6	74.9	77.8	81.9	73.4	77.8	84.4	76.6	80.5	87.0	75.8	81.9	89.0	79.7	84.6

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	degrees Absolute																	
1	89.3	80.2	84.7	94.0	86.0	89.2	89.9	82.8	86.8	85.9	82.5	84.7	85.3	82.8	83.7	79.4	73.9	77.6
2	92.3	81.2	85.7	91.2	80.1	86.8	87.8	78.2	83.9	84.7	76.2	79.9	84.4	82.2	83.2	78.9	73.8	76.9
3	93.3	78.2	86.7	86.8	79.3	83.5	88.8	75.5	81.5	84.0	78.1	81.6	86.1	79.8	82.9	78.8	74.4	76.9
4	91.2	82.8	86.4	89.8	83.0	85.8	87.5	75.3	82.9	85.2	79.1	83.0	85.6	80.0	82.5	76.6	70.1	73.0
5	87.5	79.7	83.7	87.2	83.3	85.7	89.8	83.4	85.6	87.1	80.0	84.5	83.9	80.9	82.2	76.9	72.8	74.6
6	87.2	80.8	83.3	90.4	82.7	85.8	85.7	82.5	84.2	85.7	77.4	82.1	81.5	75.3	78.4	77.8	74.0	75.9
7	89.7	78.7	83.9	86.6	82.2	84.5	86.9	81.6	84.1	84.4	72.9	78.4	77.9	71.1	73.9	79.1	76.1	77.3
8	88.2	79.6	83.3	88.0	83.7	85.9	89.3	78.2	83.3	83.4	71.7	78.9	82.4	72.3	77.2	77.9	73.5	76.3
9	88.2	79.8	83.8	90.4	80.0	86.2	91.3	75.3	83.6	86.0	82.0	83.5	83.5	77.0	80.6	78.8	73.3	75.5
10	86.1	77.5	82.6	88.6	80.1	84.4	87.7	81.8	85.1	87.4	80.4	84.1	83.8	76.4	81.7	77.7	68.8	74.3
11	90.2	83.4	86.8	86.7	79.0	82.6	87.9	84.5	86.2	86.0	76.1	82.1	82.1	76.1	78.8	74.0	66.8	70.6
12	87.2	82.2	84.6	85.9	77.3	82.2	89.5	83.7	86.5	86.5	73.7	81.8	81.7	77.0	79.6	76.5	66.5	71.5
13	89.1	82.0	84.7	89.0	81.4	85.0	90.8	85.9	87.8	84.9	71.7	79.9	78.3	72.2	75.2	73.4	64.4	68.6
14	86.6	81.0	84.4	89.7	79.0	84.2	90.4	78.9	86.0	84.6	69.8	77.4	76.2	72.9	74.7	74.3	70.5	73.1
15	87.6	82.0	85.4	88.2	79.1	83.9	87.3	76.0	83.0	85.2	78.7	81.6	77.2	71.9	74.6	77.7	73.1	75.7
16	92.0	79.1	86.3	88.4	82.0	85.0	89.0	82.0	84.6	84.8	79.7	82.5	76.2	70.2	72.5	75.8	72.6	74.0
17	94.2	79.6	87.2	92.1	83.5	86.7	88.9	76.8	83.4	83.2	74.5	79.9	77.2	69.7	74.1	76.9	71.4	73.8
18	90.6	80.5	85.5	92.8	85.1	88.0	89.1	74.5	81.7	84.6	76.0	80.9	77.4	71.7	74.3	76.8	71.9	74.1
19	92.3	81.8	86.0	90.7	83.8	87.3	86.6	78.3	84.2	85.4	80.3	83.1	76.0	68.8	73.0	76.4	74.9	75.5
20	91.1	81.2	85.2	90.9	86.0	86.4	85.7	78.4	81.9	83.6	78.3	80.9	78.5	73.0	75.8	79.0	75.6	77.5
21	88.2	83.2	85.2	89.4	84.3	86.4	85.5	75.4	79.9	83.7	80.3	82.3	81.5	74.3	77.8	79.6	75.0	77.3
22	91.4	79.6	85.8	89.8	83.6	86.2	86.1	70.3	79.5	85.9	78.6	82.2	80.6	73.0	76.5	77.9	73.6	75.5
23	93.9	75.4	85.9	89.2	77.5	85.0	87.8	81.8	85.2	83.7	77.3	81.1	80.7	73.0	76.9	76.9	73.0	74.5
24	96.2	78.4	88.2	89.0	75.6	82.6	85.4	77.5	82.8	83.0	75.1	78.6	79.9	74.3	77.7	79.0	73.2	76.5
25	92.0	83.5	87.3	87.6	76.8	83.5	85.1	75.0	79.3	82.8	76.1	79.5	76.9	71.4	74.4	82.3	75.2	79.3
26	88.6	85.0	87.1	87.8	75.9	82.2	83.0	73.1	78.1	83.9	79.4	81.8	76.4	67.9	71.3	82.4	74.9	79.3
27	91.3	83.3	87.2	90.3	80.0	84.5	82.9	68.1	76.4	85.0	83.5	84.2	78.4	69.5	73.9	80.5	79.1	79.8
28	90.3	84.0	87.2	84.9	78.2	82.6	83.8	78.6	81.3	85.8	81.7	83.7	82.6	74.8	78.5	79.9	79.0	79.4
29	92.6	82.4	88.0	88.6	83.2	86.2	87.7	79.6	83.9	86.3	75.3	81.4	77.1	73.6	75.4	80.8	76.4	79.0
30	95.6	80.7	88.7	88.4	82.8	85.3	87.0	82.9	84.4	83.9	74.0	79.2	79.4	74.0	76.9	76.8	71.0	74.5
31	00.1	85.1	92.3	89.1	82.6	85.5				83.8	77.6	81.8				81.0	70.2	77.0
Mean	90.8	81.0	85.9	89.1	81.2	85.2	87.5	78.5	83.2	84.9	77.4	81.5	80.3	74.2	77.3	78.1	72.9	76.7
									Annual	84.3	76.6	80.6						

Mean percentages from readings at exact hours 0h. to 24h., G.M.T.; vapour pressure from daily mean temperature and relative humidity

85 ESKDALEMUIR: Louvered hut: $h_f = 0.9$ m.

1943

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Rel. hum.	Vap. press.		Rel. hum.	Vap. press.		Rel. hum.	Vap. press.		Rel. hum.	Vap. press.		Rel. hum.	Vap. press.		Rel. hum.	Vap. press.		Rel. hum.	Vap. press.		Rel. hum.	Vap. press.		Rel. hum.	Vap. press.		Rel. hum.	Vap. press.		Rel. hum.	Vap. press.				
1	%	mb.		%	mb.		%	mb.		%	mb.		%	mb.		%	mb.		%	mb.		%	mb.		%	mb.		%	mb.		%	mb.				
2	91.4	6.0		91.0	7.6		87.1	8.4		79.0	6.7		79.0	7.1		85.1	10.5		80.0	11.0		90.0	16.6		95.0	15.0		95.4	13.1		94.3	12.1				
3	78.1	4.6		93.5	7.4		82.3	8.6		87.7	9.7		68.3	7.3		85.7	10.5		83.7	12.3		89.0	14.0		85.0	11.4		81.1	8.1		95.7	11.9				
4	69.4	3.6		91.4	6.5		73.3	6.0		75.4	8.8		64.5	6.9		75.8	10.1		81.8	12.8		91.5	11.6		82.5	9.2		92.4	10.3		89.0	10.9				
5	85.5	3.7		82.0	6.5		76.7	5.5		78.7	8.3		73.1	7.6		86.1	9.6		79.2	12.2		91.6	13.5		82.6	10.1		83.1	10.2		87.1	10.3				
6	87.5	4.6		95.5	9.2		73.4	6.7		83.5	7.3		76.6	7.8		89.2	13.6		78.7	10.1		92.9	13.6		87.6	12.8		97.1	13.2		95.8	11.1				
7	94.0	5.6		84.0	6.5		69.5	7.1		69.0	5.6		64.0	6.3		93.1	11.8		91.7	11.5		72.3	10.7		88.4	11.8		87.1	10.1		70.0	6.3				
8	88.5	4.9		73.4	4.2		92.3	7.4		69.9	6.8		74.7	6.2		87.5	11.6		74.5	9.7		91.3	12.4		91.3	12.1		75.9	6.8		66.3	4.3				
9	92.5	4.0		91.0	6.5		80.6	6.2		80.0	6.7		89.3	6.9		89.7	13.1		77.5	9.7		78.2	11.6		81.0	10.1		89.4	8.3		88.4	7.3				
10	80.5	4.9		83.8	6.6		79.5	6.6		76.3	8.8		71.3	5.6		86.3	12.8		81.0	10.5		75.2	11.4		82.1	10.5		95.0	12.1		89.2	9.3				
11	96.3	6.1		89.2	7.5		90.2	9.4		80.0	8.8		79.3	5.1		93.5	14.7		86.3	10.3		92.5	12.5		87.8	12.4		86.7	11.5		90.1	10.1				
12	87.2	6.5		91.0	9.6		78.2	5.6		86.9	9.9		65.0	5.9		87.8	13.1		82.4	13.0		79.5	9.5		90.0	13.7		83.9	9.7		83.9	7.7				
13	92.3	7.5		83.8	7.6		87.0	5.0		96.1	10.4		92.5	10.8		83.6	10.3		82.7	11.3		83.2	9.7		90.1	13.9		87.0	9.9		67.0	6.5				
14	90.6	7.1		77.7	6.5		90.3	6.1		96.9	10.9		93.4	11.4		81.3	9.9		80.0	11.0		84.8	11.9		95.9	15.7		80.3	8.0		82.4	5.9				
15	94.2	6.5		83.2	9.4		83.9	5.8		95.0	10.7		72.7	9.4		80.7	9.8		89.7	12.1		74.0	9.8		91.1	13.6		89.5	7.5		68.0	4.7				
16	91.1	6.4		80.5	5.8		93.2	6.5		94.0	10.8		63.4	6.9		85.3	10.1		89.6	12.9		73.7	9.6		89.9	11.0		85.7	9.6		66.7	4.6				
17	95.8	7.7		68.7	5.2		91.0	9.1		76.5	9.2		60.2	7.3		79.2	8.6		73.8	11.3		87.0	12.2		82.5	11.3		81.4	9.7		68.7	4.0				
18	90.3	7.4		88.7	8.4		99.4	10.2		80.9	9.1		62.0	8.9		71.0	9.3		75.3	12.2		88.9	13.9		77.4	9.8		88.7	8.8		71.5	4.7				
19	90.0	6.0		71.7	6.9		88.3	9.4		87.6	10.3		60.4	9.6		91.5	11.8		76.0	11.0		84.8	14.5		74.8	8.4		79.8	8.5		78.3	5.3				
20	92.9	6.9		85.5	7.7		84.5	6.4		77.5	6.8		71.3	11.0		93.0	13.0		79.3	11.9		87.3	14.2		91.5	12.1		81.4	10.1		92.4	5.6				
21	94.5	9.6		84.8	6.9		87.6	7.3		84.0	7.8		83.0	11.5		89.1	11.9		82.4	11.7		89.8	13.8		80.2	9.1		89.0	9.5		99.2	7.4				
22	94.0	9.0		82.9	7.4		82.5	7.0		67.9	8.1		78.4	11.1		81.2	9.8		90.0	12.8		90.8	14.0		75.7	7.5		91.7	10.7		95.5	8.2				
23	95.1	8.4		86.9	7.5		83.5	6.6		83.0	8.7		86.6	10.4		90.1	11.5		79.9	11.8		90.6	13.8		77.5	7.5		89.9	10.5		83.5	6.6				
24	93.3	6.9		95.6	8.9		81.0	7.3		86.0	10.1		87.8	10.4		81.8	11.0		83.3	12.4		89.9	12.6		95.6	13.6		91.5	9.9		91.2	7.4				
25	88.7	7.7		94.2	9.3		82.9	7.1		70.4	6.7		69.0	8.8		81.9	11.3		76.0	13.1		75.7	9.1		79.0	9.6		96.5	8.8		82.5	7.1				
26	89.8	8.6		83.8	7.2		89.8	7.9		78.8	7.7		78.5	9.5		83.5	12.1		87.0	14.2		86.6	11.0		75.0	7.2		95.3	9.2		67.6	4.6				
27	86.8	8.2		81.4	7.1		81.4	7.5		78.5	7.8		94.2	10.6		71.5	10.9		92.9	14.9		87.4	10.2		68.3	6.0		93.5	10.6		77.7	4.2				
28	96.5	9.5		76.8	7.9		77.0	7.5		82.7	8.1		78.5	10.9		76.4	12.5		81.2	13.2		77.6	10.5		75.4	5.9		95.0	12.6		95.9	6.3				
29	97.6	10.4		77.9	7.8		75.7	7.0		70.7	7.1		73.1	9.3		76.5	13.3		90.0	14.6		96.2	11.5		81.7	8.9		87.3	11.2		82.9	7.5				
30	82.5	7.4					90.1	8.6		77.4	7.1		72.0	9.1		76.0	13.8		81.8	13.9		94.8	14.4		89.8	11.7		89.2	9.8		81.7	5.9				
31	85.9	6.9					87.5	8.4		73.4	7.9		80.3	10.5		76.9	12.9		79.2	14.1		85.3	12.2		86.5	11.7		89.3	8.5		70.2	5.7				
31	91.6	6.6					77.6	6.9					75.5	9.7					77.3	17.3		87.9	12.7					95.7	10.8							
Mean*	89.8	6.7		84.6	7.3		83.8	7.3		80.5	8.4		75.4	8.7		83.7	11.5		82.1	12.3		85.8	12.2		84.4	10.8		88.5	9.9		82.4	7.1				

* Mean of the column.

RELATIVE HUMIDITY

Monthly and annual means of values at exact hours, G.M.T.

86 ESKDALEMUIR: $h_t = 0.9$ m.

1943

	Hour G.M.T.																									
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24	Mean*
	per cent.																									
Jan.	90.1	90.1	90.5	89.1	89.3	90.5	90.1	91.2	91.5	91.8	92.3	90.6	89.2	88.7	87.1	87.4	88.7	89.7	89.7	89.7	89.8	89.7	89.8	89.0	90.0	89.8
Feb.	86.4	87.5	85.9	86.9	87.1	88.1	87.6	88.0	86.7	85.3	85.0	83.8	81.3	82.1	80.5	81.4	80.1	82.7	83.2	82.7	83.2	84.6	85.5	86.1	85.8	84.6
Mar.	89.6	91.0	90.7	90.6	89.8	90.5	89.7	90.7	89.3	86.9	82.7	76.9	72.1	70.0	70.3	72.0	72.7	77.6	81.7	85.2	85.8	88.0	88.3	88.7	89.6	83.8
Apr.	87.8	87.3	87.0	87.9	88.4	87.4	87.4	85.9	79.2	77.9	75.8	72.9	71.2	70.5	70.3	68.9	72.7	74.4	76.3	80.1	83.0	85.5	86.4	87.4	88.1	80.5
May	84.7	85.7	87.2	88.6	88.3	88.5	84.3	80.2	74.2	70.8	65.7	63.9	61.7	61.5	60.4	61.2	65.4	67.4	69.7	72.8	78.1	81.2	83.0	85.2	84.8	75.1
June	92.7	92.9	94.0	92.9	92.4	92.4	90.1	86.9	82.0	77.4	75.1	72.1	70.4	70.6	72.2	73.2	76.9	78.8	81.5	84.3	86.9	88.5	91.5	92.2	92.6	83.7
July	92.1	92.5	93.5	93.3	93.1	93.3	90.9	87.4	82.3	77.5	74.3	72.0	71.0	70.5	68.5	68.7	69.8	71.5	73.9	78.7	84.8	88.7	89.7	91.7	92.3	82.1
Aug.	91.6	92.0	91.7	92.4	94.1	93.5	91.9	89.8	86.3	84.7	81.8	79.9	76.7	75.5	74.7	76.2	76.6	79.5	83.1	87.5	88.8	89.7	90.5	91.0	91.8	85.8
Sept.	90.8	90.3	91.1	91.7	92.1	91.3	90.5	89.6	86.9	81.5	77.4	74.3	72.1	72.2	71.4	74.1	77.3	81.2	84.3	88.0	88.5	88.4	91.0	89.1	90.7	84.4
Oct.	92.5	91.9	91.8	92.5	92.5	93.3	93.7	93.7	91.7	90.5	86.2	84.0	80.5	78.8	78.8	78.7	82.2	86.1	87.3	89.5	91.4	91.8	93.0	92.2	92.5	88.5
Nov.	84.1	84.6	84.9	85.6	86.1	86.3	86.3	85.3	86.9	83.9	79.6	77.0	74.5	75.1	76.7	78.5	80.1	81.5	82.7	83.9	83.1	84.5	83.7	83.6	83.9	82.4
Dec.	90.4	90.0	90.8	90.7	90.0	90.5	90.3	90.4	91.7	90.5	89.3	88.7	86.9	86.0	86.9	87.3	88.7	89.9	90.5	90.5	88.9	90.4	89.4	89.2	90.5	89.5
Annual	89.4	89.7	90.0	90.2	90.3	90.5	89.4	88.3	85.7	83.3	80.5	78.0	75.6	75.1	74.8	75.6	77.6	80.0	82.0	84.4	86.1	87.6	88.5	88.8	89.4	84.4

VAPOUR PRESSURE

Monthly and annual means of values at exact hours, G.M.T. computed from corresponding mean values of temperature and relative humidity

87 ESKDALEMUIR: $h_t = 0.9$ m.

1943

	Hour G.M.T.													Noon													Mean*
	0	1	2	3	4	5	6	7	8	9	10	11	13		14	15	16	17	18	19	20	21	22	23	24		
	millibars																										
Jan.	6.4	6.5	6.5	6.4	6.4	6.4	6.4	6.4	6.5	6.5	6.6	6.7	6.9	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.4	6.5	6.5	6.5	6.5	6.7	
Feb.	7.2	7.1	7.0	7.0	7.0	7.1	7.0	7.0	6.9	7.1	7.4	7.5	7.6	7.7	7.7	7.7	7.5	7.4	7.4	7.2	7.2	7.2	7.2	7.2	7.2	7.3	
Mar.	6.8	6.8	6.7	6.8	6.8	6.9	6.8	6.9	7.1	7.4	7.7	7.6	7.5	7.5	7.6	7.7	7.6	7.6	7.3	7.2	7.0	7.0	6.9	6.8	6.8	7.3	
Apr.	8.1	8.1	8.1	8.1	8.0	7.9	8.0	8.2	8.2	8.4	8.6	8.6	8.6	8.7	8.8	8.6	8.8	8.6	8.3	8.2	8.2	8.1	8.2	8.1	8.1	8.4	
May	7.7	7.5	7.5	7.5	7.5	7.6	8.0	8.4	8.5	8.6	8.6	8.8	9.0	9.2	9.1	9.1	9.4	9.5	9.3	9.1	8.9	8.6	8.3	8.2	7.8	8.7	
June	10.7	10.4	10.4	10.0	9.9	10.1	10.7	11.2	11.4	11.4	11.6	11.6	11.7	11.7	11.9	12.1	12.4	12.6	12.5	12.4	12.1	11.7	11.4	11.0	10.7	11.5	
July	11.4	11.2	11.2	11.1	10.9	10.0	11.4	11.9	12.1	12.1	12.3	12.5	12.7	13.0	12.9	13.0	13.0	13.1	13.0	12.8	12.6	12.2	11.8	11.8	11.6	12.3	
Aug.	11.4	11.3	11.3	11.4	11.6	11.5	11.5	11.9	12.1	12.4	12.6	12.8	12.7	12.8	12.7	12.8	12.7	12.7	12.7	12.7	12.3	12.0	11.7	11.5	11.3	12.2	
Sept.	10.2	10.0	10.0	9.9	9.7	9.5	9.3	9.8	10.4	10.7	10.8	10.8	10.9	11.0	11.0	11.3	11.3	11.4	11.2	11.0	10.6	10.4	10.4	10.1	10.1	10.8	
Oct.	9.5	9.4	9.2	9.3	9.2	9.2	9.2	9.5	9.7	10.1	10.2	10.4	10.3	10.3	10.3	10.4	10.3	10.3	10.1	9.8	9.9	9.9	9.7	9.8	9.6	9.9	
Nov.	6.7	6.6	6.7	6.7	6.8	6.9	6.8	6.7	6.8	6.9	7.0	7.1	7.1	7.2	7.2	7.1	6.9	6.8	6.7	6.8	6.7	6.7	6.6	6.5	6.5	7.1	
Dec.	6.4	6.4	6.5	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.6	6.9	6.9	7.0	7.1	7.0	6.9	6.7	6.6	6.6	6.5	6.6	6.5	6.5	6.5	6.7	
Annual	8.5	8.3	8.3	8.2	8.2	8.2	8.3	8.5	8.7	8.8	9.0	9.2	9.2	9.3	9.3	9.3	9.3	9.2	9.1	9.0	8.8	8.7	8.6	8.5	8.4	8.8	

* Mean of values, 1,2,.....23, $\frac{1}{2}(0 + 24)$.

RAINFALL

73

Amount in millimetres, duration in hours and maximum rate of fall for each day 0h. to 24h., G.M.T.

88 ESKDALEMUIR: h_r (height of receiving surface above M.S.L.) = height of station above M.S.L. + height of surface above ground = 24.1 m. + 0.6 m.

1943

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate
	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.
1	15.6	14.1	12	1.6	1.2	6	...	...	...	0.4	0.4	1	...	...	...	22.0	9.0	56
2	0.8	1.3	3	3.2	2.0	12	...	...	...	...	...	...	...	...	...	6.7	4.2	11
3	...	...	...	2.6	1.8	15	...	...	...	...	...	...	3.9	1.8	8	4.0	2.4	14
4	...	...	...	0.2	0.2	...	...	...	...	...	...	...	...	...	...	7.8	6.1	3
5	0.2	0.3	...	44.0	18.9	14	...	...	...	11.4	4.1	31	0.2	0.2	...	7.6	6.8	3
6	1.5	3.6	1	7.3	5.7	18	...	...	...	0.3	1.2	6	1.3	0.5	7	1.4	1.5	1
7	1.8	4.0	1	...	...	...	...	...	...	0.6	0.3	12	4.0	2.1	4	7.3	7.7	3
8	...	...	...	18.3	10.8	9	1.4	1.4	2	...	...	...	44.9	16.0	14	0.7	0.7	2
9	7.8	4.2	6	4.6	4.2	9	...	...	...	...	...	...	5.2	5.3	2	0.9	0.3	10
10	8.0	4.4	10	3.0	5.2	5	3.1	5.1	15	1.2	1.2	5	2.1	2.9	1	0.8	1.2	1
11	4.3	3.2	24	10.9	10.2	10	1.8	1.2	6	0.8	2.6	...	0.2	0.1	...	4.9	2.2	14
12	11.6	11.5	10	18.6	11.4	56	1.3	1.5	5	6.5	6.9	5	39.8	11.7	41	6.4	2.1	38
13	0.3	0.3	...	1.7	3.6	1	...	...	...	12.8	10.4	5	15.5	12.5	20	7.0	3.0	14
14	6.5	3.9	10	5.5	4.6	22	...	...	...	2.3	4.2	...	2.5	1.6	12	2.4	1.4	30
15	0.7	1.3	...	5.8	3.6	11	3.2	3.3	6	1.2	1.9	...	...	...	...	6.5	2.9	28
16	15.1	11.4	10	...	...	...	0.4	0.4	...	2.7	2.0	14	...	...	...	19.0	2.2	70
17	15.1	9.5	12	0.2	0.6	...	2.8	9.1	3	0.2	0.7	...	0.1	...	...	...	...	...
18	0.2	...	...	...	...	...	...	...	...	3.0	3.2	4	...	...	...	13.3	10.3	10
19	0.8	1.0	...	...	...	...	...	...	...	1.1	1.0	6	...	...	...	13.0	7.5	15
20	4.6	2.7	14	0.2	0.4	...	...	...	...	...	...	...	...	...	...	9.3	6.2	42
21	8.3	4.9	15	...	...	...	...	...	...	...	...	...	...	...	...	2.8	3.4	5
22	5.7	7.6	23	...	...	...	...	...	...	1.5	2.0	1	8.2	3.2	44	12.1	6.7	20
23	...	...	...	0.1	0.3	...	...	...	...	10.2	6.7	35	16.8	5.7	81	1.0	1.0	1
24	...	...	...	0.4	0.6	...	0.7	1.4	...	9.6	5.0	15	...	...	...	2.0	2.1	5
25	26.1	9.4	11	11.3	5.3	43	1.4	2.1	4	13.4	5.0	49	3.2	1.3	25	3.2	2.0	5
26	6.0	4.1	18	0.1	0.1	...	1.2	1.5	3	10.0	4.4	20	5.0	3.7	7	...	...	...
27	14.4	10.9	8	...	...	...	2.5	3.9	2	8.5	6.2	17	...	...	...	...	...	...
28	20.6	8.2	20	...	...	...	0.3	0.2	1	...	...	...	...	...	...	...	...	...
29	5.4	3.2	29	...	...	...	13.5	10.7	11	1.7	4.3	...	...	...	...	...	...	...
30	10.7	7.3	17	...	...	...	23.6	12.4	40	2.7	4.0	2	7.7	6.0	10	...	...	...
31	15.7	5.7	16	...	...	...	3.0	2.3	15	...	...	...	4.7	4.8	9	...	...	...
Total	207.8	138.0	-	139.6	90.7	-	60.2	56.5	-	102.1	77.7	-	165.3	79.4	-	162.1	92.9	-

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate
	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.
1	...	...	...	14.9	5.1	56	17.4	13.5	70	15.1	11.5	54	6.9	7.3	10	1.2	1.1	5
2	...	...	...	5.2	4.1	40	1.8	0.9	12	5.3	4.7	40	0.9	1.1	...	10.9	6.8	8
3	...	...	...	0.4	0.4	3	0.1	...	...	11.6	13.0	2	0.1	...	...	1.3	8.2	1
4	0.2	0.3	1	5.6	5.5	12	1.7	3.5	...	9.6	8.7	26	...	...	...	...	...	...
5	3.6	1.6	23	11.6	5.8	23	21.5	7.9	78	43.2	21.4	21	15.4	12.9	4	...	...	...
6	11.0	5.6	14	...	...	...	6.0	7.1	21	14.2	7.6	30	...	...	...	...	...	...
7	1.9	0.3	23	16.4	10.1	15	21.3	4.1	55	...	...	...	...	...	...	5.0	7.9	3
8	0.1	0.1	...	5.2	3.9	6	...	...	...	1.2	3.7	1	3.3	6.4	1	2.9	8.0	...
9	2.5	3.1	2	1.0	1.0	9	...	...	...	2.7	7.7	1	0.5	0.9	...	0.1	...	...
10	1.3	2.1	1	12.1	7.8	55	0.4	2.1	...	0.3	0.6	6	9.1	8.5	105	...	...	...
11	7.8	5.6	17	0.4	0.2	16	0.5	1.0	...	5.2	4.9	7	1.2	3.4	...	...	...	...
12	12.2	3.3	57	4.8	3.2	29	...	...	...	1.5	3.4	13	0.1	...	...	...	...	...
13	9.8	6.5	12	9.1	4.5	18	18.7	5.4	67	2.7	3.6	1	1.4	0.6	6	...	...	...
14	7.9	9.7	6	0.6	0.4	7	8.6	5.6	45	...	...	...	5.9	2.7	8	...	...	...
15	6.9	4.6	25	1.7	1.4	8	12.4	5.6	15	...	...	...	...	...	...	0.5	0.1	...
16	...	...	...	6.1	7.9	6	2.0	5.9	5	4.7	3.7	6	...	...	...	...	...	...
17	...	...	...	0.1	0.2	...	3.7	6.0	6	24.0	16.8	14	...	...	...	2.2	3.1	3
18	...	...	...	0.4	1.0	...	...	...	...	0.6	0.4	6	...	...	...	6.1	6.4	14
19	...	...	...	2.0	2.0	22	1.0	2.1	1	10.0	3.6	14	1.2	1.0	6	0.7	0.6	5
20	...	...	...	6.7	7.1	20	1.3	1.0	6	16.5	5.1	61	0.2	...	...	9.6	6.6	17
21	...	...	...	2.6	3.4	16	...	...	...	34.2	9.5	55	0.3	...	...	13.9	10.9	9
22	...	...	...	7.1	6.8	15	...	...	...	4.5	1.5	13	0.2	0.1	1	1.0	0.6	8
23	...	...	...	4.5	2.0	23	4.0	4.7	14	4.9	5.6	2	23.8	9.4	34	0.3	0.2	1
24	...	...	...	...	...	...	1.2	1.3	2	0.2	...	...	20.5	11.7	18	0.2	...	...
25	0.2	1.9	...	10.1	5.4	54	...	...	...	0.2	...	...	...	...	...	2.3	3.1	3
26	7.3	9.8	6	19.2	6.9	47	...	...	...	15.6	9.7	7	...	...	...	2.2	1.9	6
27	0.8	1.5	1	...	...	...	22.0	7.3	16	9.9	11.6	4	4.3	7.8	...	0.4	0.6	...
28	2.5	1.6	18	16.9	13.2	6	2.0	2.3	4	...	...	...	5.4	5.2	11	1.9	2.0	3
29	0.2	0.2	...	29.1	14.8	139	0.7	3.9	1	...	...	...	8.6	4.6	11	3.0	6.3	2
30	...	...	...	2.9	5.0	3	1.4	1.5	3	...	...	...	0.2	0.3	...	...	...	...
31	16.1	4.8	78	1.7	4.1	4	...	...	...	15.9	9.1	14	...	...	...	2.4	1.8	1
Total	92.3	62.6	-	198.4	133.2	-	149.7	92.5	-	253.8	167.4	-	109.5	83.9	-	68.1	76.2	-

RAINFALL

Monthly and annual totals of amounts in sixty-minute periods between exact hours, G.M.T.

89 ESKDALEMUIR: $h_r = 242.0$ m. + 0.4 m.

1943

	Hour G.M.T.																								
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	0-24
	millimetres																								
Jan.	8.0	10.3	10.6	4.8	8.0	8.0	9.6	10.0	12.8	8.7	18.8	10.5	9.0	3.2	4.7	10.8	10.6	7.3	12.3	3.3	5.5	10.0	6.8	4.2	207.8
Feb.	3.8	1.8	5.8	6.5	9.5	11.5	10.3	7.7	3.7	2.0	2.8	2.8	4.6	3.2	4.2	3.9	7.6	8.5	5.5	4.8	9.8	7.7	6.0	5.6	139.6
Mar.	1.7	1.7	0.6	2.0	1.3	1.6	5.5	1.5	1.1	1.7	1.7	4.3	3.9	4.5	4.8	3.4	2.7	7.2	0.9	1.9	2.8	0.6	1.2	1.6	60.2
Apr.	6.9	6.0	5.9	5.2	4.5	3.6	2.2	1.5	1.4	0.6	2.8	2.0	5.9	5.3	5.4	5.4	5.6	2.9	0.8	3.4	4.2	4.3	7.5	8.8	102.1
May	2.1	6.1	9.1	8.3	9.7	9.5	8.3	4.7	9.0	7.4	14.4	3.2	4.0	14.1	9.9	21.5	3.6	4.8	2.9	5.5	1.4	3.4	1.3	1.1	165.3
June	4.7	1.9	4.4	3.8	4.5	3.3	2.8	5.2	5.5	2.4	5.9	4.9	7.3	17.3	10.3	12.2	10.6	9.8	17.0	8.1	9.4	3.4	5.7	1.7	162.1
July	2.1	7.0	4.9	7.8	11.3	7.5	3.8	0.9	0.7	1.4	0.7	2.3	1.7	2.1	2.9	4.5	6.0	5.0	0.9	8.4	2.7	2.7	1.6	3.4	92.3
Aug.	15.4	6.0	6.9	6.4	8.7	5.1	5.8	5.4	7.1	8.2	15.8	10.8	6.1	5.1	8.4	15.5	7.6	16.4	9.3	2.6	3.2	6.2	8.9	7.5	198.4
Sept.	4.0	5.4	7.1	10.6	5.3	2.7	4.1	1.6	1.0	5.9	7.1	3.8	5.4	1.3	6.0	8.5	4.5	6.0	8.5	5.9	8.5	16.2	9.6	10.7	149.7
Oct.	9.2	7.3	9.4	13.8	8.5	9.6	17.2	10.1	10.1	9.8	10.5	7.2	5.2	8.7	12.5	8.4	8.2	7.7	13.9	18.3	18.8	9.2	10.4	9.8	253.8
Nov.	5.5	6.7	4.6	7.3	3.2	6.7	7.8	5.3	4.5	3.5	2.3	1.5	3.5	6.7	6.4	6.4	8.6	3.0	3.7	2.7	3.7	1.9	2.4	1.6	109.5
Dec.	4.6	2.6	2.1	2.1	3.4	2.5	1.5	3.5	4.0	2.6	4.3	4.2	0.5	0.3	0.8	1.4	1.2	1.5	1.8	5.3	5.2	4.6	4.4	3.7	68.1
Annual	68.0	62.8	71.4	78.6	77.9	71.6	78.9	57.4	60.9	54.2	87.1	57.5	57.1	71.8	76.3	101.9	76.8	80.1	77.5	70.2	75.2	70.2	65.8	59.7	1708.9

RAINFALL

Monthly and annual totals of durations in sixty-minute periods between exact hours, G.M.T.

90 ESKDALEMUIR: $h_r = 242.0$ m. + 0.4 m.

1943

	Hour G.M.T.																								
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	0-24
	<i>hours</i>																								
Jan.	6.6	8.2	4.7	3.8	5.9	6.1	6.6	7.6	9.0	6.7	7.8	7.1	6.0	4.1	5.0	7.0	5.6	5.2	6.3	2.7	3.8	3.9	4.4	3.9	138.0
Feb.	2.9	3.0	4.7	3.9	4.1	6.2	4.8	4.3	4.1	1.5	2.3	2.8	2.8	3.6	5.9	5.1	4.9	3.6	3.4	3.1	3.2	4.5	2.9	3.1	90.7
Mar.	2.3	3.4	1.5	2.2	2.4	2.4	4.2	3.2	2.6	1.8	1.7	2.3	2.3	2.3	3.1	3.1	3.4	3.9	1.0	2.2	2.8	0.4	1.0	1.0	56.5
Apr.	5.9	4.1	4.9	5.2	3.2	3.4	1.5	1.1	2.6	1.4	1.8	0.8	3.5	3.8	1.7	2.7	3.3	1.9	1.3	3.6	4.2	4.3	5.2	6.3	77.7
May	2.3	3.4	4.4	4.6	4.1	4.7	4.6	4.9	5.6	4.6	4.0	2.3	2.7	3.8	4.1	5.2	1.9	1.6	1.1	2.3	1.5	2.8	1.4	1.5	79.4
June	4.4	2.4	3.9	2.5	3.1	3.3	3.5	3.0	3.5	2.6	2.9	2.4	2.4	4.1	4.7	5.8	5.0	6.3	6.1	5.2	4.7	3.9	4.4	2.8	92.9
July	3.5	3.1	3.8	5.9	4.3	4.3	1.8	1.1	0.8	0.7	1.2	1.7	2.0	2.2	2.6	2.6	3.4	2.0	1.7	2.6	2.7	2.6	2.9	3.1	62.6
Aug.	7.1	6.5	7.6	6.0	6.6	6.9	7.6	7.6	6.1	4.5	6.5	5.5	6.5	4.0	5.0	6.1	4.5	4.5	1.7	2.4	3.3	4.4	6.4	6.0	133.3
Sept.	3.3	3.6	5.2	6.3	6.4	5.7	3.3	2.5	3.4	2.0	2.1	2.7	0.8	0.7	2.3	3.3	4.2	3.4	5.2	4.2	5.4	6.3	5.3	4.9	92.5
Oct.	5.1	5.4	8.2	7.1	9.4	8.7	12.5	8.7	7.1	4.5	6.0	6.1	5.8	5.3	5.4	5.7	5.0	5.5	7.8	8.7	8.8	7.1	5.9	7.6	167.4
Nov.	3.8	4.6	4.0	5.2	4.9	2.5	5.1	3.2	3.7	3.2	2.4	2.1	2.8	4.1	3.7	4.4	4.6	3.8	3.1	3.2	4.0	2.9	0.9	1.7	83.9
Dec.	3.0	4.0	3.6	4.0	4.2	4.7	4.6	5.5	5.5	2.7	2.9	3.2	0.4	0.3	1.3	1.3	1.3	1.3	1.9	4.5	5.0	5.2	2.8	3.0	76.2
Annual	50.2	51.7	56.5	56.7	58.6	58.9	60.1	52.7	54.0	36.2	41.6	39.0	38.0	38.3	44.8	52.3	47.1	43.0	40.6	44.7	49.4	48.3	43.5	44.9	1151.1

NOTES ON RAINFALL

91 ESKDALEMUIR:

1943

Dry Periods

The following definitions are adopted by the British Rainfall Organization

An "absolute drought" is a period of at least 15 consecutive days to none of which is credited 0.2 mm. of rain or more

A "partial drought" is a period of at least 29 consecutive days, the mean daily rainfall of which does not exceed 0.2 mm.

A "dry spell" is a period of at least 15 consecutive days to none of which is credited 1.0 mm. of rain or more

"Absolute drought" No occasions

"Partial drought" No occasions

"Dry spell" No occasions

Wet Periods

The following definitions are adopted by the British Rainfall Organization

A "rain spell" is a period of at least 15 consecutive days to each of which is credited 0.2 mm. of rain or more

A "wet spell" is a period of at least 15 consecutive days to each of which is credited 1.0 mm. of rain or more

"Rain spell" May 30-June 16

"Wet spell" No occasions

Rainfall Duration

There were 116 days on which no duration of rainfall was registered. The day with the greatest duration was October 5, when the duration was 21.4 hr., the amount falling being 43.2 mm.

Hours	0.1-1.0	1.1-2.0	2.1-6.0	6.1-12.0	>12.0
Number of days	46	37	94	60	12

Notable Falls of the Year

The greatest amount in a 60-min. period was 12.2 mm. which was recorded between 13h. and 14h. on June 16; on this occasion 10 mm. of rain fell in 30 min. Falls of 5 mm. in 1 hr. or less occurred on 19 days.

Details of the greatest continuous falls are as follows

	May 12	October 5	October 5-6	October 17
Amount (mm.)	39.8	21.5	33.1	23.7
Duration of rainfall (hr.)	11.7	12.1	13.2	16.5

Rate of Rainfall (Jardi recorder)

The highest instantaneous rate of rainfall recorded was 139 mm./hr. at 18h.25m. on August 29. The maximum rate exceeded 50 mm./hr. on February 12, May 23, June 1 and 16, July 12 and 31, August 1, 10, 25 and 29, September 1, 5, 7 and 13, October 1, 20 and 21 and November 10.

DURATION OF BRIGHT SUNSHINE AND PERCENTAGE OF POSSIBLE FOR EACH DAY

75

92 ESKDALEMUIR: h_s (height of recorder above ground) = 1.5 m.

1943

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible
1	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%
2	1.3	18	0.7	8	0.7	7	3.5	27	3.9	24	3.5	21	5.6	32	3.6	23	0.3	2	...	...	...	...	...	...
3	2.2	31	1.9	22	...	...	3.4	26	8.1	53	1.3	8	9.2	53	1.1	7	3.3	24	6.2	54	...	...	1.2	16
4	1.7	24	4.5	51	5.1	47	3.2	24	7.7	50	0.5	6	4.8	28	0.4	3	0.3	2	2.1	19	0.7	8	2.7	37
5	...	...	...	...	1.9	17	0.3	2	1.8	12	2.9	17	4.0	23	...	...	3.6	27	...	...	...	...	...	...
6	...	...	1.6	18	6.8	62	10.6	80	10.6	68	...	...	3.2	19	2.7	17	...	...	0.5	4	7.0	78	...	...
7	...	...	7.3	81	2.4	22	9.0	67	5.6	36	2.5	15	7.3	43	...	...	1.0	7	7.8	70	7.3	82	...	...
8	4.0	55	...	...	3.5	31	0.7	5	...	...	2.1	12	7.5	44	2.0	13	3.8	29	...	...	1.0	11	0.1	1
9	...	...	6.3	69	4.2	37	5.1	38	5.5	35	4.6	27	3.8	22	7.4	48	9.8	74	0.9	8	3.1	35	3.8	53
10	...	...	0.3	3	0.4	4	1.0	7	...	...	...	...	0.4	2	0.3	2	...	...	2.1	19	...	...	0.4	6
11	...	...	...	...	6.9	61	...	...	11.7	74	0.2	1	8.3	49	5.6	37	...	...	6.3	58	0.3	3	1.9	27
12	...	...	0.9	10	4.1	36	...	...	...	...	8.5	49	7.8	46	0.9	6	...	...	...	...	6.4	75	5.8	81
13	0.4	5	0.5	5	5.6	49	...	...	...	...	6.2	36	6.7	40	1.1	7	...	...	5.1	48	2.2	26	3.6	51
14	...	...	0.1	1	8.2	71	...	...	3.9	24	4.5	26	0.5	3	10.4	69	0.1	1	5.7	54	0.5	6	...	...
15	1.1	14	6.2	65	1.2	10	1.4	10	9.6	60	5.7	33	2.5	15	7.3	49	...	...	2.0	19	3.1	37	...	...
16	...	...	7.4	77	3.8	32	8.2	58	5.0	31	4.5	26	12.1	72	...	...	...	...	3.2	31	4.6	55	...	...
17	1.6	21	1.0	10	...	...	0.1	1	10.2	62	8.0	46	14.6	82	2.2	15	0.4	3	...	...	7.1	86	...	...
18	3.3	43	7.6	78	6.8	57	...	...	13.2	81	...	...	11.2	67	3.3	22	8.4	67	6.8	66	2.9	36	...	...
19	...	...	0.3	3	...	...	7.3	51	11.4	70	...	...	8.7	52	2.2	15	0.3	2	1.0	10	...	...	0.8	11
20	...	...	0.7	7	...	...	2.4	17	4.4	27	6.2	36	7.2	43	1.0	7	8.2	66	3.2	32	...	...	...	...
21	2.0	25	...	...	6.4	53	9.6	67	1.4	9	6.9	40	1.2	7	1.8	12	7.1	58	...	...	...	...	...	...
22	...	...	0.9	9	7.9	65	0.4	3	1.6	9	0.8	5	9.1	55	3.4	23	7.1	58	2.9	29	2.8	35	4.2	60
23	3.3	41	2.5	25	9.6	78	2.1	14	4.3	26	4.8	28	10.8	66	2.4	17	...	...	...	...	...	...	4.3	61
24	...	...	...	...	1.7	14	8.9	61	13.9	84	5.4	31	12.2	74	5.9	41	2.0	17	2.4	24	...	...	1.5	21
25	...	...	3.5	34	...	...	3.1	21	3.8	23	5.8	33	3.4	21	3.2	22	7.0	58	2.2	22	6.9	84	...	...
26	...	...	2.1	20	2.9	23	6.9	46	...	...	6.3	36	...	...	5.7	40	6.4	54	...	...	5.3	69	...	...
27	...	...	2.5	24	7.0	56	2.9	20	10.9	64	14.0	81	7.6	47	9.4	66	4.3	36	...	...	...	...	...	...
28	...	...	0.8	8	6.0	47	8.4	56	10.1	60	15.1	87	0.1	1	...	...	2.0	17	0.4	4	1.2	16	...	...
29	2.0	24	...	...	...	...	5.7	38	13.0	77	14.4	83	6.1	38	...	...	0.5	4	4.6	48	3.3	43	1.8	26
30	0.8	9	...	...	...	...	7.3	48	6.4	38	13.9	80	9.2	57	8.3	59	0.5	4	1.1	12	6.4	85	5.6	79
31	...	...	...	...	1.0	8	...	...	1.6	9	...	...	8.3	52	0.5	4	...	...	...	...	...	...	...	...
Mean	0.8	-	2.1	-	3.4	-	4.0	-	6.1	-	5.1	-	6.4	-	3.0	-	2.8	-	2.2	-	2.6	-	1.2	-
													Annual mean	3.31										

DURATION OF BRIGHT SUNSHINE

Monthly and annual totals between exact hours, local apparent time

93 ESKDALEMUIR: h_s = 1.5 m.

1943

	Hour L. A. T.																				Total	Per cent. of possible
	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12		12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21			
	hours																					%
Jan.	-	-	-	-	...	0.2	2.2	2.8	4.2		5.6	4.3	3.6	0.8	...	-	-	-	-		23.7	10
Feb.	-	-	-	...	0.3	5.0	7.3	7.6	8.1		7.2	8.7	9.4	5.6	0.4	...	-	-	-		59.6	22
Mar.	-	-	...	0.2	3.3	6.5	9.1	14.2	14.1		14.3	13.4	12.2	11.2	5.1	0.5	...	-	-		104.1	29
Apr.	-	...	0.7	4.0	8.1	9.6	10.4	12.4	12.4		13.0	13.5	12.5	10.4	7.9	4.9	1.0	...	-		120.8	28
May	...	0.7	7.1	10.4	11.1	14.3	16.9	17.8	19.6		19.5	16.5	14.7	12.9	12.3	11.2	4.0	0.5	...		189.5	38
June	...	1.5	7.6	10.1	11.4	12.7	12.2	14.4	14.5		11.6	10.9	10.3	9.1	7.4	9.3	6.9	3.7	...		153.6	30
July	...	0.7	6.7	8.6	11.6	12.1	13.1	12.8	16.4		17.1	18.7	18.7	17.7	16.7	14.5	9.3	2.8	...		197.5	38
Aug.	-	...	1.5	3.6	6.9	6.9	8.3	8.6	11.1		8.9	7.8	8.6	7.7	7.6	4.9	0.5	...	-		92.9	20
Sept.	-	-	...	2.1	6.1	8.2	10.9	10.9	10.8		7.6	7.9	6.3	6.0	4.2	2.3	...	-	-		83.3	22
Oct.	-	-	-	...	1.3	4.8	7.0	9.9	8.8		9.9	10.3	7.5	5.7	1.3	...	-	-	-		66.5	21
Nov.	-	-	-	-	...	5.6	12.2	13.1	12.2		10.8	10.7	10.1	4.5	...	-	-	-	-		79.2	32
Dec.	-	-	-	-	-	0.1	3.2	8.5	7.1		7.7	6.7	4.4	...	-	-	-	-	-		37.7	17
Annual	...	2.9	23.6	39.0	60.1	86.0	112.8	113.0	139.3		133.2	129.4	118.3	91.6	62.9	47.6	21.7	7.0	...		1208.4	27

WIND

Mean speed and highest instantaneous speed recorded each day (0h. to 24h., G.M.T.) by the pressure-tube anemograph

94 ESKDALEUIR: h_a (height of anemograph above M.S.L.) = height of ground above M.S.L. + height of anemograph above ground
= 235 m. + 15 m.

1943

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust
	<i>metres per second</i>																							
1	4.5	18	7.6	18	5.6	17	8.8	30	4.8	18	4.9	15	2.9	11	2.8	9	4.9	16	10.5	27	1.4	9	3.5	15
2	6.2	19	3.0	10	3.8	17	5.2	19	1.6	10	4.3	13	2.9	9	3.9	13	4.6	14	5.9	18	4.3	13	3.5	14
3	4.9	17	3.2	13	3.9	13	5.1	20	4.0	12	2.7	12	2.3	12	3.9	13	1.9	10	10.7	25	2.2	8	3.9	15
4	0.6	7	3.5	12	1.7	9	5.6	18	1.6	8	3.5	13	4.4	17	5.1	12	3.8	8	8.7	24	3.3	11	0.3	3
5	1.0	7	10.9	27	3.9	21	10.7	29	3.1	13	3.5	13	2.8	11	7.1	19	8.2	22	11.5	27	6.3	17	0.0	1
6	2.8	8	6.9	27	3.4	23	9.3	27	4.4	15	1.9	8	2.4	9	3.8	19	7.0	18	6.2	23	6.5	19	0.2	3
7	4.2	14	2.0	14	2.5	9	12.8	41	5.7	15	5.5	16	2.1	14	5.7	20	3.4	14	1.5	9	2.3	13	0.2	3
8	0.7	5	10.0	25	6.4	21	6.2	27	8.9	22	2.6	9	2.3	11	9.5	21	0.7	6	4.6	16	1.7	12	2.7	10
9	2.9	15	6.2	20	5.5	20	6.6	23	9.8	29	1.8	7	5.4	17	3.4	17	1.6	9	4.3	14	5.1	15	2.9	9
10	2.4	15	4.1	17	11.3	27	4.4	13	2.7	13	1.8	9	2.0	10	2.0	15	3.5	14	3.2	10	9.6	29	1.7	9
11	8.0	22	8.6	25	6.5	19	5.1	15	6.0	17	4.4	15	8.0	24	3.7	15	3.0	11	5.0	17	6.3	26	1.4	5
12	5.4	21	12.4	32	2.5	11	5.2	14	9.9	28	6.3	19	9.2	23	4.1	13	1.7	8	6.7	22	11.6	27	0.6	4
13	3.9	12	11.5	29	3.5	15	7.1	15	10.4	24	7.3	21	8.4	22	8.4	22	1.4	10	1.1	6	4.3	16	1.1	9
14	1.5	9	13.8	29	2.1	11	8.9	21	7.6	22	4.5	14	6.1	14	4.3	19	2.6	13	2.0	11	11.9	27	1.6	9
15	2.2	9	12.8	31	4.7	18	5.4	13	3.5	15	2.3	11	7.0	20	4.9	18	6.2	22	0.9	5	8.8	21	1.2	5
16	2.7	17	6.1	21	4.2	13	1.8	9	3.3	14	0.9	9	3.8	16	1.3	8	4.4	18	6.7	18	4.4	15	1.6	6
17	5.9	18	5.3	19	3.0	10	8.1	21	1.7	10	2.0	12	3.4	11	2.2	11	0.9	8	4.8	17	6.1	17	4.3	14
18	1.0	7	4.7	19	3.6	13	8.9	22	1.5	9	5.7	19	4.5	13	4.6	15	0.5	5	4.6	6	3.2	13	5.2	21
19	2.0	7	6.2	17	4.2	11	4.7	19	4.1	14	9.3	21	3.6	10	3.7	14	4.6	15	7.4	22	1.2	7	9.9	21
20	2.2	9	3.1	15	3.0	8	6.8	18	2.1	10	11.4	23	5.2	14	7.7	27	5.8	23	6.5	17	0.3	3	9.0	20
21	4.0	16	6.3	15	2.5	10	3.8	11	1.9	9	6.1	20	5.2	13	3.1	12	2.9	11	8.5	20	1.5	11	8.1	21
22	0.2	2	4.3	12	4.7	8	1.9	9	3.6	12	7.6	20	3.3	9	9.6	21	3.7	15	5.5	17	3.2	15	4.7	22
23	0.9	7	5.5	13	5.9	15	5.2	16	8.7	24	6.5	18	1.5	7	4.7	16	6.6	16	1.3	6	7.2	25	2.6	15
24	7.9	24	5.3	15	5.7	16	7.8	21	3.6	12	4.5	16	0.9	6	1.6	9	5.1	15	1.1	7	9.5	23	2.4	14
25	9.5	23	9.3	24	6.5	21	13.1	29	2.5	11	4.8	15	3.6	11	3.9	15	2.9	13	2.5	9	6.6	18	6.0	19
26	9.3	21	4.6	17	3.0	12	12.0	29	2.4	11	1.3	11	8.7	20	2.4	13	2.6	9	7.3	16	1.1	8	4.3	14
27	7.7	19	4.8	17	4.0	16	6.0	19	4.1	15	1.5	9	4.4	14	2.9	13	4.0	16	9.1	21	0.5	8	5.9	19
28	9.7	18	4.7	17	4.8	17	3.0	16	3.9	16	1.7	8	2.8	11	1.5	10	6.6	23	5.9	16	6.9	19	5.9	14
29	9.8	23			9.5	27	1.7	11	1.8	10	2.1	11	1.5	8	5.7	21	4.4	15	1.8	8	8.5	21	8.8	22
30	8.0	19			12.5	30	5.0	17	2.3	11	4.4	14	1.1	6	7.6	23	5.1	15	1.6	10	8.0	23	4.3	19
31	6.8	25			10.3	24			1.7	13			2.8	13	3.4	10			1.5	7			3.7	22

WIND

Monthly and annual means of mean wind speed between exact hours, G.M.T.

95 ESKDALEUIR: h_a = 235 m. + 15 m.

1943

	Hour G.M.T.		2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	<i>metres per second</i>																								
Jan.	4.2	4.2	4.6	4.3	4.2	3.7	4.0	4.1	4.1	4.2	4.7	4.8	5.4	5.5	5.3	4.7	4.5	4.6	4.6	4.2	4.4	4.5	4.6	4.3	4.5
Feb.	6.7	6.7	6.7	6.5	6.2	6.1	5.7	5.4	5.6	6.5	6.4	6.7	6.7	7.5	7.8	7.7	7.2	6.7	6.8	7.0	6.8	6.8	6.8	6.8	6.7
Mar.	4.0	3.8	4.1	3.9	3.8	3.9	4.2	4.5	5.0	5.6	6.2	6.4	6.5	6.6	6.7	6.4	6.4	5.5	4.6	4.3	4.4	4.4	4.2	4.4	5.0
Apr.	5.8	5.9	5.8	5.6	5.7	6.3	5.8	6.1	7.0	7.6	7.9	8.0	8.1	8.4	8.3	8.1	7.6	6.9	6.3	5.8	5.3	5.1	4.7	4.9	6.5
May	3.2	3.2	3.2	3.2	3.1	3.1	3.4	3.9	4.6	5.2	5.8	6.1	6.2	5.9	5.8	5.8	5.4	5.3	4.3	3.7	3.1	2.7	3.1	3.4	4.3
June	2.6	2.7	2.8	2.5	2.5	2.6	3.2	3.6	4.2	5.0	5.3	5.9	5.9	6.1	5.9	5.7	5.6	5.5	5.1	4.7	4.0	3.7	3.4	2.9	4.2
July	2.9	2.7	2.8	2.6	2.8	3.0	3.8	4.1	4.7	4.9	4.9	5.2	5.5	5.5	5.2	5.1	4.8	4.8	4.6	3.9	3.4	3.3	2.8	2.8	4.0
Aug.	3.7	3.5	3.7	3.3	2.9	2.8	3.0	3.6	4.1	4.5	4.8	5.2	5.7	5.9	6.3	6.4	6.0	5.6	4.8	4.4	4.5	4.2	4.1	4.1	4.5
Sept.	3.0	3.2	3.1	3.3	3.2	3.1	3.0	3.4	3.9	4.7	4.9	5.0	5.1	5.4	5.0	4.8	4.4	4.1	3.7	3.4	3.3	3.0	2.8	2.9	3.8
Oct.	4.1	3.7	3.7	4.1	3.8	3.9	4.2	4.2	5.0	5.6	6.4	6.8	7.1	7.0	7.0	6.5	6.1	5.7	5.4	5.0	4.9	4.6	4.4	4.2	5.1
Nov.	4.9	4.6	4.8	5.0	4.8	5.1	4.7	4.3	4.7	5.6	5.8	6.0	6.1	6.2	5.8	5.6	5.3	4.8	4.7	4.6	4.9	4.7	4.9	5.1	5.1
Dec.	3.4	3.8	3.6	3.5	3.7	3.6	3.8	3.8	3.5	3.6	3.9	4.0	3.7	3.9	4.0	3.7	3.6	3.1	3.2	3.3	3.5	3.4	3.5	3.5	3.6
Annual	4.0	4.0	4.0	3.9	3.9	3.9	4.0	4.3	4.7	5.2	5.6	5.8	6.0	6.1	6.1	5.9	5.6	5.2	4.8	4.5	4.4	4.2	4.1	4.1	4.8

DISTRIBUTION OF WIND SPEED, EXTREME VELOCITIES AS RECORDED BY PRESSURE-TUBE ANEMOGRAPH

96 ESKDALEUIR: h_a = 235 m. + 15 m.

1943

	DISTRIBUTION OF WIND SPEED								EXTREME VELOCITIES				
	More than 17.1 m./sec.		10.8 to 17.1 m./sec.		5.5 to 10.7 m./sec.	1.6 to 5.4 m./sec.	Less than 1.6 m./sec.	No record	Highest hourly wind			Highest gust	
	Dates of occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration	Veer from N.	Speed	Hour ended	Speed	Date
		hr.		hr.	hr.	hr.	hr.	hr.	°	m./sec.	day h.	m./sec.	day h. m.
Jan.	-	0	10	53	209	255	227	0	200	17	31 14	25	31 12 20
Feb.	5, 6, 14, 15,	7	12	110	248	254	53	0	290	19	15 16	32	12 9 40
Mar.	10, 30,	3	9	48	247	320	126	0	240	18	10 15	30	30 17 00
Apr.	7, 8, 25, 26,	12	14	97	301	234	76	0	290	25	7 6	41	7 6 45
May	12	2	6	42	176	336	188	0	200	18	12 14	29	9 4 45
June	-	0	5	34	195	315	176	0	200	15	20 17	23	20 15 40
July	-	0	4	22	171	402	149	0	230	15	11 9	24	11 8 25
Aug.	-	0	6	31	236	308	169	0	200	16	20 14	27	20 13 25
Sept.	-	0	3	14	185	334	187	0	190	13	5 11	23	28 1 5
Oct.	1	1	10	75	249	249	170	0	210	17	1 20	27	5 20 45
Nov.	-	0	9	65	244	250	161	0	300	16	14 6	29	10 16 35
Dec.	-	0	5	18	186	276	264	0	230	14	29 5	22	29 7 35
Year	12	25	93	609	2647	3533	1946	0	290	25	Apr. 7 6	41	Apr. 7 6 45

97 ESKDALEUIR

1943

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	30 cm.	122 cm.	30 cm.	122 cm.	30 cm.	122 cm.	30 cm.	122 cm.	30 cm.	122 cm.	30 cm.	122 cm.	30 cm.	122 cm.	30 cm.	122 cm.	30 cm.	122 cm.	30 cm.	122 cm.	30 cm.	122 cm.	30 cm.	122 cm.
	degrees Absolute																							
1	77.2	80.3	77.9	79.1	78.7	79.1	79.3	79.4	81.7	80.5	84.9	82.1	88.1	83.9	88.1	84.7	86.0	85.1	83.9	84.1	82.5	83.2	77.8	81.0
2	77.0	80.2	77.7	79.1	78.9	79.1	79.4	79.4	81.5	80.6	84.8	82.0	87.8	83.6	88.3	85.1	86.1	85.1	83.9	84.1	82.8	83.1	78.1	81.0
3	76.7	80.1	77.7	79.1	78.7	79.1	80.0	79.4	82.0	80.6	84.6	82.1	87.9	83.6	88.4	85.1	85.9	85.1	83.7	84.1	82.8	83.2	78.2	81.0
4	76.7	80.2	77.5	79.1	78.7	79.1	80.4	79.4	82.1	80.7	84.7	82.1	87.9	83.9	87.6	85.1	85.4	85.1	83.5	84.1	82.9	83.2	78.0	81.0
5	76.5	80.1	77.5	79.1	78.5	79.1	80.4	79.3	82.4	80.6	84.6	82.1	87.5	84.0	87.1	85.0	85.5	84.9	83.7	84.1	82.8	83.1	77.7	80.8
6	76.4	80.1	78.0	79.1	78.6	79.1	79.8	79.4	82.3	80.7	85.0	82.5	87.0	84.0	86.9	85.1	85.5	85.0	84.0	84.4	82.8	83.0	77.5	81.0
7	76.3	80.1	77.9	79.1	78.8	79.1	79.7	79.5	82.1	81.2	84.9	82.3	87.1	84.1	87.0	85.4	85.2	85.0	83.9	84.4	82.0	83.1	77.5	81.0
8	76.1	79.9	77.0	79.1	78.8	79.1	79.2	79.5	82.0	80.9	85.0	82.3	87.1	84.1	86.8	85.1	85.1	85.0	83.7	84.4	82.3	83.0	77.8	80.8
9	75.8	79.7	77.0	79.1	78.3	79.1	79.3	79.5	81.0	81.0	85.1	82.4	87.0	84.3	86.9	85.1	85.1	84.9	83.5	84.6	80.9	83.0	77.9	80.7
10	76.0	79.9	77.0	79.1	78.5	79.1	80.0	79.6	80.7	80.9	85.6	82.4	86.5	84.3	87.0	85.1	85.1	84.9	83.2	84.0	81.5	82.9	77.8	80.9
11	76.0	79.2	77.1	79.0	78.8	79.2	80.3	79.7	80.4	80.8	85.8	82.5	86.2	84.1	86.9	85.2	85.1	84.9	83.4	83.6	81.3	82.7	77.8	80.6
12	75.9	79.1	78.0	78.9	78.2	79.1	80.6	79.6	80.7	80.8	85.7	82.5	86.4	84.1	86.7	85.1	85.2	84.6	83.1	83.7	81.1	82.7	77.7	80.5
13	75.9	79.1	78.0	79.0	77.9	79.1	80.6	79.7	81.2	80.8	85.5	82.7	86.3	84.2	86.1	85.1	85.9	84.9	83.1	83.6	80.9	82.7	76.8	80.4
14	75.9	79.1	77.9	79.0	77.7	79.4	81.0	79.8	81.7	80.8	85.4	82.4	86.2	84.4	86.1	85.2	86.0	85.0	82.9	83.7	80.3	82.6	76.6	80.2
15	75.9	79.1	78.3	79.1	77.6	79.4	81.0	79.9	82.1	80.8	85.2	82.9	86.1	84.2	86.3	85.2	86.1	85.1	82.9	83.6	79.7	82.7	76.3	80.2
16	75.9	79.1	78.0	79.0	77.7	79.4	81.4	79.8	82.1	80.8	85.2	82.2	86.4	84.6	86.3	85.2	85.8	84.9	82.9	83.6	79.0	82.6	76.2	80.1
17	76.4	79.1	78.2	79.0	77.8	79.4	81.9	80.1	82.6	81.1	85.0	83.1	86.5	84.6	86.3	84.9	86.0	85.2	82.9	83.5	78.7	82.5	76.1	80.1
18	76.2	79.2	78.0	79.1	78.3	79.5	82.0	80.1	82.8	81.1	85.0	82.0	86.7	84.2	87.0	85.4	85.9	85.3	82.8	83.8	78.4	82.3	76.1	80.3
19	76.5	79.1	78.1	79.1	79.0	79.4	81.4	80.1	84.0	81.1	85.0	82.1	87.0	84.2	87.2	85.1	85.9	85.1	82.7	83.4	78.1	82.1	76.1	80.1
20	76.7	79.0	78.0	79.1	79.0	79.3	81.0	80.2	84.3	81.1	85.1	82.7	87.1	84.5	87.7	85.2	85.1	84.6	82.7	83.3	78.1	82.0	76.1	79.9
21	77.3	79.0	78.0	79.1	78.8	79.2	81.0	80.1	84.5	81.2	85.1	83.1	87.1	84.5	87.5	85.1	84.7	84.6	82.5	83.3	78.5	81.9	76.3	79.9
22	77.7	78.9	78.0	79.0	78.6	79.1	81.3	80.1	84.5	81.1	85.1	83.1	86.8	84.4	87.0	85.1	84.5	84.8	82.7	83.3	78.9	81.7	76.8	79.7
23	77.8	79.0	78.0	79.0	78.9	79.1	81.4	80.2	84.5	81.2	85.0	83.1	87.0	84.6	86.9	85.1	84.4	84.6	82.7	83.2	78.7	81.6	76.8	79.6
24	77.8	79.1	78.4	78.9	79.0	79.2	81.5	80.1	84.0	81.3	85.0	83.2	87.0	84.3	86.5	85.0	84.3	84.5	82.6	83.3	78.8	81.7	76.8	79.6
25	77.9	78.9	78.7	79.0	79.0	79.2	81.5	80.3	84.1	81.5	85.3	83.1	87.4	84.5	84.4	85.1	84.4	84.7	82.5	83.4	78.8	81.5	76.8	79.6
26	78.0	78.9	78.5	79.1	79.0	79.1	81.1	80.3	84.0	81.6	85.8	83.2	87.3	84.5	85.9	85.0	83.9	84.5	82.3	83.5	78.1	81.2	77.0	79.5
27	78.0	78.9	78.3	79.1	79.1	79.2	81.1	80.4	84.0	81.5	86.1	83.3	87.3	84.6	85.8	85.1	83.7	84.2	82.4	83.6	77.9	81.0	77.0	79.4
28	78.5	79.0	78.8	79.1	79.2	79.2	81.1	80.4	84.1	81.7	86.9	83.2	87.2	84.8	85.9	85.0	83.1	84.3	82.6	83.5	77.8	81.3	78.0	79.5
29	78.8	79.0			79.4	79.2	81.0	80.5	84.3	81.9	87.5	83.6	87.2	84.9	85.8	85.0	83.1	84.2	82.8	83.4	78.0	81.1	78.2	79.4
30	78.7	79.0			79.6	79.3	81.5	80.4	84.7	81.8	88.0	83.6	87.4	85.0	85.8	85.1	83.4	84.1	82.8	83.3	78.0	81.1	78.1	79.4
31	78.1	79.1			79.3	79.3			84.8	81.9			87.5	84.9	85.8	85.0			83.0	83.4			77.6	79.5
Mean	76.9	79.4	77.9	79.1	78.7	79.2	80.7	79.9	82.5	81.1	85.4	82.7	87.0	84.3	86.8	85.1	85.0	84.7	83.1	83.7	80.1	82.3	77.2	80.2
	Year												81.8	81.8										

MINIMUM TEMPERATURE "ON THE GRASS" DURING THE INTERVAL 18h. TO 7h., G.M.T.

98 ESKDALEUIR

1943

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
	degrees Absolute											
1	72.6	70.5	74.1	76.0	67.8	81.4	81.8	87.5	83.8	79.9	82.7	68.2
2	68.9	72.8	75.2	77.4	67.8	79.4	77.5	85.7	77.8	72.1	82.1	76.9
3	67.8	69.3	73.9	79.1	75.2	80.3	76.0	74.2	71.7	72.1	81.4	71.0
4	60.6	72.7	73.5	72.2	68.4	71.6	83.0	81.1	69.7	82.6	75.3	66.0
5	65.6	73.0	67.3	76.3	70.6	82.5	74.8	84.4	83.5	74.9	80.1	69.6
6	71.2	75.1	74.6	72.1	72.5	81.6	79.3	81.8	79.2	80.9	73.7	72.5
7	72.5	66.1	65.9	75.0	71.2	77.2	74.0	79.4	80.0	69.2	65.8	74.0
8	63.7	65.7	73.6	66.9	73.0	84.4	77.9	84.7	75.8	66.2	67.4	76.0
9	60.3	74.0	68.9	78.4	73.0	74.1	76.3	81.5	70.9	80.9	74.0	71.6
10	72.5	73.9	77.6	79.8	69.6	85.4	72.0	74.3	78.0	77.4	81.2	71.0
11	70.0	75.8	73.0	78.4	66.7	84.2	83.5	79.0	83.8	80.3	72.5	63.0
12	74.6	80.7	62.4	72.9	76.9	76.1	81.8	72.8	82.2	69.6	77.7	65.8
13	74.1	73.0	65.8	80.2	80.7	72.2	81.3	81.0	81.1	79.7	72.3	60.6
14	73.4	78.6	66.6	80.4	82.5	79.5	*(80.8)	73.6	86.1	65.0	68.6	64.0
15	67.4	72.8	61.9	80.0	73.1	76.9	84.3	77.4	70.3	72.6	71.1	66.6
16	70.8	71.4	74.8	79.4	72.0	71.6	78.6	81.2	79.5	77.9	66.5	72.8
17	76.8	72.0	78.1	72.7	76.5	72.5	74.2	82.1	80.8	80.1	64.1	70.9
18	67.3	74.3	79.9	81.8	76.0	71.6	74.6	83.0	69.2	71.3	68.4	71.3
19	71.6	69.6	72.1	69.0	75.2	82.2	81.7	79.3	72.1	78.1	64.6	73.0
20	73.5	68.7	74.5	70.2	78.2	81.4	76.9	85.0	75.6	76.4	72.1	74.0
21	78.3	76.9	70.2	74.6	74.6	79.7	81.3	82.4	70.9	77.7	72.7	77.3
22	75.2	75.6	68.1	76.5	75.4	75.0	83.1	81.6	64.4	79.1	67.6	72.1
23	69.3	76.0	74.3	73.0	79.9	81.0	72.2	83.3	80.6	73.9	68.6	71.9
24	74.2	78.1	73.3	73.8	73.7	74.3	75.4	71.3	82.1	72.9	76.2	68.9
25	78.6	75.1	77.0	75.1	74.0	83.1	79.4	75.6	69.1	69.1	70.9	75.1
26	76.2	71.8	74.7	77.1	72.0	77.9	82.9	71.6	66.8	75.8	64.1	71.7
27	76.8	77.7	71.6	74.8	81.2	74.0	84.5	74.9	61.6	82.9	63.7	77.7
28	79.2	78.2	72.1	70.7	74.0	73.7	80.3	73.1	76.0	81.0	74.8	78.8
29	77.2		75.3	65.6	70.2	76.3	83.0	83.0	77.1	77.7	72.9	78.7
30	76.0		75.7	80.4	77.9	79.4	78.3	83.0	80.2	70.2	73.2	72.0
31	72.0		73.3		72.3		80.5	78.0		72.5		65.8
Mean	71.9	73.5	72.2	75.3	73.9	78.0	79.1	79.6	76.0	75.5	72.2	71.3
* Interpolated, grass minimum not set.						Year	74.9					

POTENTIAL GRADIENT (reduced to level surface)
Mean values for periods of sixty minutes between exact hours, G.M.T.

99 ESKDALEMUIR

1943

	JANUARY, factor 4·87				FEBRUARY, factor 4·98				MARCH, factor 4·96			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	<i>volts per metre</i>											
1	Z-	-35	Z-	235	Z-	Z-	110	(545)	155	240	170	165
2	190	Z±	140	130	315	(670)	300	Z-	60	110	175	290
3	265	210	410	480	(720)	Z-	190	150	15	160	140	175
4	210	170	275	290	20	150	215	360	80	150	155	310
5	165	290	150	305	Z-	Z-	275	Z-	220	55	255	240
6	25	20	170	130	-110	-105	Z-	365	95	80	215	325
7	-50	20	215	310	85	160	190	560	140	400	275	260
8	190	130	205	200	260	95	-225	Z-	270	160	130	300
9	160	125	335	-390	-345	330	195	190	95	260	150	120
10	30	0	240	500	95	Z-	185	195	115	130	70	Z-
11	355	115	Z-	355	135	140	15	-10	0	150	(Z±)	415
12	Z-	Z-	Z-	565	Z-	Z-	Z±	190	130	250	250	435
13	145	260	220	540	60	160	Z-	70	270	360	180	255
14	205	265	75	-110	30	55	50	40	315	390	225	565
15	260	295	125	215	(290)	30	100	145	310	310	Z-	260
16	400	Z-	275	305	165	350	185	245	255	350	215	295
17	(-)	Z-	215	465	125	375	175	80	260	415	375	90
18	330	95	155	(710)	170	245	185	215	280	405	215	285
19	Z+	Z+	415	595	165	165	75	200	155	190	65	210
20	195	210	Z-	445	115	150	345	355	65	60	95	150
21	Z-	85	330	(710)	85	225	125	190	240	220	175	215
22	Z-	Z-	150	150	120	140	160	355	395	(700)	165	290
23	290	320	(710)	500	280	230	215	130	185	155	175	245
24	380	335	310	280	170	155	95	260	115	180	115	-275
25	55	Z-	165	225	Z-	75	Z-	170	90	180	150	215
26	75	125	175	100	85	125	75	115	-115	315	245	485
27	145	410	155	195	55	150	205	205	Z-	225	150	235
28	160	530	Z-	240	85	75	150	215	Z-	130	160	300
29	170	Z-	240	605					65	260	Z-	Z-
30	295	Z-	165	Z+					5	Z-	Z-	Z-
31	60	Z±	195	275					110	Z-	85	135
(a)	198	201	239	359	165	193	166	231	160	241	175	269
(b)	177	192	245	266	102	181	153	214	164	252	185	245
Mean	(a) 249 (b) 220				(a) 189 (b) 163				(a) 211 (b) 211			

	APRIL, factor 4·97				MAY, factor 4·86				JUNE, factor 4·64			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	<i>volts per metre</i>											
1	Z-	90	130	270	580	150	5	110	Z-	160	Z-	135
2	110	200	190	225	90	100	115	215	45	Z-	170	105
3	(125)	(145)	235	310	Z+	185	175	180	Z-	115	135	Z-
4	185	245	155	245	90	250	230	110	220	215	-160	235
5	215	80	Z-	Z±	85	185	110	235	Z-	Z-	175	205
6	100	205	220	205	270	140	155	110	165	90	120	335
7	70	100	205	245	130	175	Z±	175	(650)	290	125	290
8	540	100	180	185	Z±	Z-	Z-	-175	255	390	115	340
9	150	130	150	145	Z-	Z±	185	185	265	225	Z-	265
10	90	65	0	155	80	250	60	Z-	60	215	100	125
11	65	130	160	155	145	150	165	Z-	385	180	210	85
12	390	260	170	Z-	105	Z-	Z-	225	225	130	Z-	Z-
13	75	Z-	310	295	Z-	135	Z-	105	100	Z-	Z-	150
14	40	195	220	235	15	170	175	200	210	Z-	Z-	125
15	155	175	95	40	170	155	175	280	245	185	Z±	Z-
16	Z-	180	260	530	110	110	175	190	365	Z+	Z+	190
17	205	95	215	85	105	160	165	255	155	190	135	350
18	85	143	115	185	260	250	170	175	95	-100	-80	Z-
19	165	30	150	215	185	185	135	110	100	170	210	Z-
20	130	250	150	160	225	350	195	335	110	145	165	Z-
21	205	265	205	515	80	140	135	130	125	190	145	280
22	295	50	115	230	150	340	80	Z-	275	165	Z-	Z-
23	205	180	155	Z-	Z-	70	Z-	170	105	170	115	270
24	175	(215)	180	Z-	120	165	130	360	250	185	225	95
25	105	105	Z-	Z+	110	95	Z±	85	105	80	80	285
26	Z-	85	250	170	205	185	-15	335	240	105	125	330
27	Z-	Z-	145	235	160	120	130	220	415	300	190	270
28	365	165	165	180	130	120	150	245	320	340	205	360
29	95	335	125	95	140	120	140	160	190	230	160	225
30	190	280	175	290	115	95	185	300	155	155	280	375
31					190	135	85	270				
(a)	174	161	172	224	156	167	143	203	216	193	159	236
(b)	168	165	161	205	166	164	137	217	237	208	136	266
Mean	(a) 183 (b) 175				(a) 167 (b) 171				(a) 201 (b) 212			

The potential gradient is reckoned as positive if the potential increases upwards. For indeterminate potential gradient the following notation is used: Z+, indeterminate, positive value; Z-, indeterminate, negative value; Z±, indeterminate, in magnitude and sign.

(a) Mean of all positive readings.

(b) Mean from all complete days using both positive and negative readings.

99 ESKDALEMUIR

1943

	JULY, factor 4.51				AUGUST, factor 4.55				SEPTEMBER, factor 4.78			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	<i>volts per metre</i>											
1	130	95	125	175	(25)	265	Z±	40	180	165	215	285
2	120	160	210	265	190	180	130	315	290	240	5	90
3	140	5	155	290	205	105	-	115	15	180	200	215
4	130	100	105	190	-	220	130	15	125	150	115	160
5	170	120	-35	200	180	245	105	-55	-220	130	40	-
6	Z-	150	Z±	Z-	100	110	165	65	-	-	10	125
7	245	140	135	170	15	230	110	110	-	115	Z±	275
8	160	170	160	185	-70	160	95	105	180	265	145	145
9	160	185	120	185	80	190	200	265	75	85	175	110
10	165	120	115	205	115	445	135	240	95	65	110	-5
11	70	Z-	125	245	45	205	Z-	435	85	290	150	155
12	Z±	105	Z±	Z-	290	Z-	155	165	(50)	(40)	160	-
13	-10	170	45	140	-85	145	95	105	(60)	355	165	Z±
14	140	195	115	405	180	205	Z-	200	Z-	320	155	95
15	150	305	90	125	195	15	140	85	(15)	150	55	25
16	125	195	210	225	40	140	130	105	(55)	(65)	200	(30)
17	230	190	170	180	275	65	240	260	30	320	195	130
18	175	120	150	185	Z±	125	180	190	(45)	185	205	425
19	90	95	190	310	90	205	150	205	210	265	120	55
20	350	170	225	150	225	225	-	-	Z-	Z-	275	240
21	125	105	115	95	-	-	Z±	140	95	105	190	205
22	95	180	230	295	100	245	15	195	115	205	240	135
23	380	170	165	175	45	130	155	185	110	175	90	Z-
24	335	175	135	215	60	260	215	145	95	105	140	220
25	360	270	155	180	315	Z-	140	330	220	170	135	260
26	130	75	200	290	220	Z±	190	(60)	245	205	165	170
27	165	425	180	295	-	-	155	260	95	135	(230)	(Z-)
28	155	130	165	305	40	105	-135	105	165	120	215	320
29	100	195	180	295	30	200	165	315	215	285	130	170
30	180	210	135	280	-170	185	160	215	65	125	115	195
31	195	225	60	Z±	120	140	(165)	135				
(a)	177	165	149	223	133	183	147	176	117	179	150	176
(b)	174	166	146	223	71	179	128	163	125	178	153	166
Mean	(a) 179		(b) 177		(a) 160		(b) 135		(a) 155		(b) 155	

	OCTOBER, factor 5.04				NOVEMBER, factor 5.10				DECEMBER, factor 5.05			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	<i>volts per metre</i>											
1	160	295	65	Z-	-5	250	225	495	(20)	(15)	520	-10
2	125	50	Z±	Z-	205	320	325	450	80	125	305	345
3	160	-	-	-	380	250	195	190	-100	-30	170	500
4	-	-	110	240	170	210	325	(255)	105	115	95	50
5	120	Z-	130	Z-	(80)	(10)	260	125	(30)	(45)	285	380
6	Z-	(35)	-	(45)	125	80	230	480	185	460	180	305
7	(20)	(20)	145	240	155	135	215	365	215	55	130	-75
8	125	135	205	95	160	95	220	330	-220	-35	245	190
9	135	315	385	510	265	580	190	35	-130	125	200	460
10	235	240	230	35	110	195	55	Z±	95	100	430	380
11	-	-	150	470	105	200	65	0	95	315	210	350
12	210	355	220	95	75	105	210	200	145	260	260	335
13	70	130	185	350	Z±	315	Z±	345	175	400	630	605
14	30	115	240	285	Z±	115	225	230	385	290	Z+	(725)
15	115	215	175	60	155	-60	225	255	155	240	365	440
16	-10	65	130	Z±	115	220	295	360	380	320	225	255
17	-95	Z-	Z±	210	285	255	305	200	130	85	210	Z-
18	230	Z±	230	480	200	230	370	385	435	350	215	115
19	240	75	205	Z-	140	225	Z-	620	70	80	170	105
20	Z+	180	Z±	250	660	535	605	Z+	80	Z-	50	Z-
21	Z±	Z-	30	Z-	455	390	170	140	115	Z-	100	Z±
22	Z±	Z-	230	80	125	5	100	250	185	140	215	165
23	(-5)	Z-	250	415	100	195	Z-	270	145	195	215	275
24	(735)	(620)	360	195	60	Z-	Z-	280	185	120	185	575
25	665	75	315	380	115	125	245	195	210	-10	200	230
26	435	155	165	60	160	100	250	155	180	170	145	115
27	115	160	260	140	65	70	265	280	65	215	105	115
28	285	450	200	445	225	190	205	130	90	180	200	150
29	345	270	220	415	Z-	Z±	165	Z±	55	95	Z-	5
30	155	125	185	205	-125	175	275	215	115	175	325	280
31	270	115	200	-60					190	145	285	95
(a)	226	191	201	248	188	206	239	268	154	185	237	290
(b)	247	218	231	216	159	179	235	250	119	164	250	259
Mean	(a) 217		(b) 228		(a) 225		(b) 206		(a) 217		(b) 198	

The factor used for converting the potential at the collector to potential gradient in volts per metre in the open is given for each month.

Annual means	(a)	172	189	181	242
	(b)	159	187	180	224
	(a)	196		(b)	187

POTENTIAL GRADIENT (reduced to level surface): DIURNAL INEQUALITIES
The departures from the mean of the day are adjusted for non-cyclic change†

100 ESKDALEMUIR

1943

	Hour G. M. T.																								Non-cyclic change†	No. of days used	Mean
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
	volts per metre																										
	0a days only*																										
Jan.	-19	-13	-49	-41	-68	-83	-92	-85	-47	+37	-2	-34	-81	-29	+11	+48	+63	+103	+114	+119	+69	+6	+32	+31	-63	5	265
Feb.	-23	-49	-52	-65	-48	-27	-16	-7	+17	+4	-23	-27	-24	-12	-9	+10	-10	+38	+47	+60	+88	+82	+31	+6	+41	8	188
Mar.	-32	-22	-44	-62	-37	-7	+42	+71	+40	-18	-30	-23	-18	-29	-27	-13	-16	+13	+51	+66	+75	+35	+16	-40	-32	9	235
Apr.	-6	-2	+38	-12	-7	-6	+7	+9	-7	-17	0	-18	-37	-23	-22	+1	-18	-10	+27	+60	+37	+4	-8	-2	+26	8	199
May	-3	-25	-42	-19	-19	-35	-23	-12	-20	-19	-5	-4	-7	-12	-6	+1	+6	+5	+24	+38	+64	+68	+32	+14	-5	9	164
June	+27	+78	+31	+33	+32	+18	+15	+9	-11	-24	-19	-41	-52	-54	-56	-67	-57	-36	-15	+32	+50	+32	+32	+32	+59	5	242
July	+30	+33	+20	+22	+16	+15	+33	+5	-18	-25	-21	-27	-32	-25	-26	-32	-19	-24	-24	+18	+26	+25	+21	+5	+21	10	197
Aug.	+26	-18	-35	-34	-16	-34	+11	+64	+56	+4	+5	+46	+45	+62	+33	-5	-10	-34	-87	-90	-34	+12	+11	+18	+66	2	152
Sept.	-10	-26	-18	-34	-20	-44	-7	-9	+9	-10	-10	-17	-20	+4	+4	+14	+9	+36	+17	+43	+27	+9	+35	+23	+50	5	167
Oct.	+12	+8	+4	-18	-30	-15	-8	+2	-39	-30	-30	-37	-36	-19	-9	-9	0	+23	+40	+76	+63	+27	+9	+21	+46	7	261
Nov.	-30	-64	-41	-33	-44	-50	-49	-31	-31	-48	-24	-11	+28	+25	+43	+41	+54	+68	+78	+60	+51	+32	+14	-31	-26	8	229
Dec.	-57	-88	-85	-94	-96	-53	-67	-36	0	+23	+61	+58	+18	+23	+32	+44	+45	+82	+96	+45	+43	+18	+8	-31	+29	8	254
Year	-7	-16	-23	-30	-28	-27	-13	-2	-4	-10	-8	-11	-18	-7	-3	+3	+4	+22	+31	+44	+47	+29	+19	+4	-	-	213
Winter	-32	-53	-57	-58	-64	-53	-56	-40	-15	+4	+3	-3	-15	+2	+19	+36	+38	+73	+84	+71	+63	+35	+21	-6	-	-	234
Equinox	-9	-11	-5	-31	-23	-18	+9	+18	+1	-19	-17	-24	-28	-17	-13	-2	-6	+15	+34	+61	+51	+19	+13	+1	-	-	215
Summer	+20	+17	-7	+1	+3	-9	+9	+17	+2	-16	-10	-7	-11	-7	-14	-26	-20	-22	-25	-1	+27	+34	+24	+17	-	-	189

1a and 2a days only*

Jan.	-91	-102	-119	-98	-115	-72	-122	-101	-103	-113	0	+62	+68	+97	+55	+93	+115	+154	+118	+60	+66	+93	+45	+7	+60	2	131
Feb.	-22	+5	-22	-43	-65	-18	+44	+56	+43	0	-22	-27	-49	-7	+6	+40	+52	+62	+18	-20	-5	+2	-15	-23	-36	4	152
Mar.	-88	-63	-45	-27	-11	-8	+5	+31	+53	+38	+29	+28	+15	+13	-9	-24	-20	+23	+67	+46	+7	+17	-11	-74	-17	7	197
Apr.	+41	-26	-38	-125	-83	-111	-40	+19	+6	-9	+33	+15	-11	+23	+3	-18	-10	-9	+6	+33	+39	+68	+106	+91	-73	5	174
May	-14	+30	+64	+2	+12	+39	+40	+38	+24	-16	-37	-44	-34	-53	-43	-48	-44	-20	+5	+28	+33	+15	+20	-4	-88	4	169
June	+41	+29	+50	+78	+108	+76	-15	-32	+9	-49	-63	-61	-79	-101	-94	-58	-33	-41	-13	+67	+77	+32	+22	+57	-21	5	205
July	+6	-7	-13	-31	-19	-21	-25	-20	-18	-35	-33	-35	-19	+2	-6	+4	+1	+7	+11	+31	+67	+62	+55	+32	-23	12	163
Aug.	+4	-36	-86	-36	+8	+10	+12	+42	+40	-13	+13	0	-4	+18	-44	-19	+26	+26	+20	+18	0	+5	-3	+6	+63	8	135
Sept.	-19	-15	-48	-46	-46	-32	-19	-3	+33	+21	+15	-8	-5	+10	+19	+15	-11	+23	+29	+38	+34	+18	+8	-14	-47	10	143
Oct.	+3	+5	-11	+3	-25	-1	+10	+44	-37	-10	+17	+14	-14	-12	+26	+34	+14	+23	+5	-66	-32	+7	+1	-6	-107	5	172
Nov.	-27	-67	-84	-105	-99	-66	-44	-84	-52	-30	+5	+49	+117	+93	+26	+34	+70	+26	+16	+81	+70	+50	+25	-3	+11	7	200
Dec.	-12	-96	-114	-84	-50	-50	-67	-54	-70	-45	-16	-12	+5	-6	+10	+18	+26	+92	+153	+159	+106	+91	+10	-7	-81	9	210
Year	-15	-29	-39	-43	-32	-21	-18	-5	-6	-22	-5	-2	-2	+6	-4	+6	+15	+31	+36	+40	+39	+38	+22	+5	-	-	171
Winter	-38	-65	-85	-83	-82	-51	-47	-46	-45	-47	-8	+18	+35	+44	+24	+46	+66	+83	+76	+70	+59	+59	+16	-7	-	-	173
Equinox	-16	-25	-35	-49	-41	-38	-11	+23	+14	+10	+23	+12	-4	+9	+10	+2	-7	+15	+27	+13	+12	+27	+26	-1	-	-	171
Summer	+9	+4	+4	+3	+27	+26	+3	+7	+14	-28	-30	-35	-34	-33	-47	-30	-13	-7	+6	+36	+44	+29	+23	+23	-	-	168

Winter: January, February, November, December

Equinox: March, April, September, October

Summer: May to August.

* For explanation of 0a, 1a, 2a days see p.90, *Observatories' Year Book, 1938.*† See p.10, *Observatories' Year Book, 1938.*

101 ESKDALEMUIR

1943

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient
		hr.		hr.		hr.		hr.		hr.		hr.
1	2c	13.5	1b	1.5	0a	...	1b	1.1	1a	1.7	2c	8.1
2	1b	0.9	1b	1.4	1a	1.3	0a	...	0a	...	2c	7.4
3	0a	...	2b	3.3	2a	3.4	0a	...	1b	1.2	2c	5.5
4	0a	...	1b	0.9	0a	...	0a	...	0a	...	2b	3.4
5	0a	...	2c	16.6	0a	...	2c	4.7	1b	2.5	2c	8.2
6	1a	2.7	2c	5.7	0a	...	1b	0.5	1b	0.7	0a	...
7	2a	5.5	0a	...	0a	...	1b	1.9	1c	2.6	1a	0.1
8	0a	...	2c	8.4	1b	1.6	0a	...	2c	18.1	1a	0.3
9	2b	5.0	2b	5.3	1a	0.1	0a	...	2c	4.7	1b	1.6
10	2b	5.1	2b	4.1	1b	1.5	1b	2.3	1b	1.7	1a	1.4
11	2b	3.3	2b	4.5	1b	1.9	1b	2.5	1b	0.9	1b	0.9
12	2c	14.4	2c	11.3	1b	0.5	1b	2.2	2c	8.7	2c	5.0
13	1b	0.5	2b	4.4	1b	0.3	2b	5.5	2c	6.0	2c	8.3
14	2b	4.9	2b	3.6	0a	...	1a	0.1	1b	1.3	2c	3.9
15	1b	2.6	2b	4.0	1b	2.9	2b	3.2	0a	...	2c	5.5
16	2c	8.4	0a	...	0a	...	1b	2.9	0a	...	2c	5.1
17	2c	9.0	1a	0.2	1a	0.2	1a	0.2	0a	...	1b	0.3
18	0a	...	0a	...	1a	0.1	1b	0.5	0a	...	2b	5.6
19	1b	0.7	0a	...	1a	0.5	1b	1.5	1a	0.4	1b	1.6
20	2b	3.8	0a	...	1a	1.0	0a	...	1a	0.1	1b	2.7
21	2c	4.9	0a	...	1a	0.1	0a	...	1a	0.1	2b	4.3
22	2c	8.6	0a	...	0a	...	2a	3.1	2b	3.8	1b	1.9
23	0a	...	1a	0.5	0a	...	2c	5.4	2c	8.2	1b	1.0
24	0a	...	1b	2.4	1b	2.1	2c	4.9	0a	...	1b	0.3
25	2c	9.5	2c	4.1	2b	3.9	2c	4.7	1b	2.6	1a	0.1
26	2b	4.1	1a	0.3	2b	3.3	2c	7.1	1b	2.2	1a	0.1
27	2b	6.6	0a	...	1b	3.0	2c	5.6	0a	...	0a	...
28	2c	6.8	1a	0.1	1b	0.9	0a	...	0a	...	0a	...
29	1b	1.9			2c	7.7	1a	0.3	0a	...	0a	...
30	2c	5.1			2c	13.9	1a	0.6	1b	1.6	0a	...
31	2b	3.7			2c	4.6			1b	2.0		
Total	-	131.5	-	82.6	-	54.8	-	60.8	-	71.1	-	82.6
No. of days used	-	31	-	28	-	31	-	30	-	31	-	30
Mean	-	4.2	-	2.9	-	1.8	-	2.0	-	2.3	-	2.8

	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient
		hr.		hr.		hr.		hr.		hr.		hr.
1	1a	0.1	1b	1.8	1b	2.9	2b	3.4	1a	2.8	1a	0.9
2	0a	...	1b	1.1	1b	1.7	2c	6.6	0a	...	2b	5.9
3	1a	0.5	(1a)	-	1a	0.2	(2c)	-	0a	...	2a	3.4
4	1a	0.3	(1b)	-	1a	0.2	(2c)	-	0a	...	0a	...
5	1b	1.3	2b	5.3	(2b)	5.3	2c	15.9	(1a)	1.3	0a	...
6	2c	7.3	1a	0.4	(1b)	(2.7)	2c	6.7	1a	0.1	1a	0.1
7	2b	3.3	2b	3.4	2c	(4.6)	(0a)	...	0a	...	1b	2.9
8	1a	0.2	1b	2.8	0a	...	1a	0.2	1a	0.7	2c	9.2
9	1a	0.3	1a	0.3	0a	...	0a	...	1a	0.1	1a	1.1
10	1a	0.5	1b	1.3	1a	2.8	(1a)	-	1b	2.9	1a	0.4
11	1b	1.3	1b	1.3	1a	0.6	(1b)	-	1b	0.9	0a	...
12	2c	5.4	1b	2.0	(1a)	-	1b	0.1	1a	0.6	0a	...
13	2b	4.9	1a	1.1	2c	4.5	1a	0.1	1b	1.2	0a	...
14	1b	2.1	1b	1.3	1b	2.3	0a	...	1b	1.0	0b	...
15	1b	1.8	1b	0.9	2b	3.3	1a	0.1	1a	0.9	0a	...
16	0a	...	1a	0.2	(1a)	0.1	2b	7.3	0a	...	0a	...
17	0a	...	1b	1.8	1a	0.9	2c	(13.4)	0a	...	2b	3.1
18	0a	...	1b	1.5	0a	...	1b	0.7	0a	...	2c	3.3
19	0a	...	1a	0.1	1a	0.1	2c	3.8	1b	1.9	1b	0.8
20	1a	0.1	(1b)	0.9	1b	0.8	2c	5.9	0b	...	2c	6.7
21	1a	0.1	(1b)	1.1	0a	...	2c	(7.5)	1a	0.1	2c	8.8
22	0a	...	1a	1.0	1a	0.3	1b	1.4	1b	1.6	1b	1.1
23	0a	...	2b	3.1	1b	0.9	2b	5.6	2c	9.3	1a	0.6
24	0a	...	0a	...	1a	0.4	0b	...	2c	11.0	1a	0.1
25	0a	...	2c	6.8	0b	...	0a	...	0a	...	1a	0.4
26	1a	0.3	2c	3.6	0a	...	1a	1.7	0a	...	1a	0.2
27	1a	0.1	(1a)	-	(2b)	-	0a	...	1a	0.6	1a	0.1
28	1a	0.1	2a	4.4	1a	0.1	0a	...	1b	1.2	0a	...
29	1a	0.1	1b	2.8	1a	0.5	0a	...	2c	3.5	1b	1.3
30	0a	...	1a	1.7	1a	1.0	0a	...	1a	0.2	0a	...
31	2c	3.8	0a	...			2a	4.8			1a	0.4
Total	-	33.9	-	52.0	-	36.2	-	85.2	-	41.9	-	50.8
No. of days used	-	31	-	28	-	28	-	27	-	30	-	31
Mean	-	1.1	-	1.9	-	1.3	-	3.2	-	1.4	-	1.6

Annual values: Character 0 1 2
No. of days used 94 169 102

Duration: Total 783.4
No. of days 356
Mean 2.20 hr.

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

102 ESKDALEMUIR (H)												16,000γ (0.16 C.G.S. unit) +												JANUARY 1943											
	Hour G.M.T.																								Mean										
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24											
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ										
1	524	525	525	526	529	533	533	532	529	525	523	525	533	538	540	540	544	542	534	512	495	498	490	502	525										
2	514	518	520	521	526	530	533	529	525	522	517	518	517	520	518	521	506	508	515	518	519	517	519	519	520										
3	522	524	529	527	529	540	538	537	537	529	521	517	514	510	514	517	529	533	529	520	521	524	516	528	525										
4 d	540	517	512	517	525	526	529	526	519	522	513	455	473	488	529	525	506	466	478	496	516	528	506	508	509										
5	510	495	508	523	521	522	518	518	513	502	506	512	517	519	517	512	509	501	507	519	528	537	503	506	513										
6	506	508	516	516	514	514	525	529	520	512	497	494	509	514	518	518	509	515	519	512	537	521	514	517	515										
7 q	516	521	521	521	519	519	522	525	525	518	517	514	514	521	526	527	527	529	525	522	521	520	519	523	521										
8	521	519	519	521	525	525	529	529	526	521	518	518	521	525	525	530	525	525	519	514	506	505	524	533	522										
9	510	510	529	526	533	531	534	515	510	514	518	510	509	514	518	522	526	517	517	516	519	522	519	520	519										
10	518	518	518	518	519	522	524	525	523	521	518	514	522	530	526	527	525	521	522	515	514	526	517	509	521										
11 q	513	518	519	521	522	529	529	529	529	529	526	523	522	522	522	521	517	525	525	525	523	523	522	525	523										
12	522	524	522	522	519	539	538	529	530	524	521	514	516	518	523	528	529	526	524	524	521	513	514	515	523										
13 q	521	526	522	523	523	523	529	530	526	529	526	524	521	524	525	526	524	529	528	525	529	528	533	529	526										
14 q	524	523	525	525	524	525	528	529	531	529	525	522	523	526	529	532	532	532	532	532	528	527	525	525	527										
15 q	524	524	525	526	528	532	533	533	534	529	529	525	520	524	521	513	517	510	513	512	513	516	516	528	523										
16	527	528	528	528	529	531	533	534	534	529	525	520	520	524	521	513	517	510	513	512	513	516	516	528	523										
17 d	523	514	523	528	532	536	540	533	534	540	509	477	481	492	512	495	518	487	492	498	510	510	517	536	514										
18	517	511	513	513	517	519	531	519	517	518	519	506	501	513	517	520	520	514	500	505	516	517	516	517	515										
19	524	516	520	521	521	521	531	521	521	521	516	514	520	511	524	527	521	506	508	516	513	516	523	521	519										
20 d	523	516	521	523	530	534	518	528	528	513	507	494	509	502	502	493	504	475	489	470	426	403	429	481	497										
21 d	489	485	477	506	509	518	500	506	505	498	466	473	490	513	497	499	504	502	505	502	502	543	527	498	501										
22 d	546	497	505	513	516	521	525	523	512	489	489	498	488	483	481	501	489	494	482	498	499	516	509	501	503										
23	500	505	511	512	517	509	516	513	510	512	503	493	502	506	513	510	505	509	516	516	510	525	513	515	510										
24	509	505	498	516	515	520	525	520	519	522	510	494	502	505	512	512	517	517	513	508	513	513	514	521	513										
25	523	515	517	520	523	523	525	520	521	520	513	508	507	514	521	518	516	518	522	521	524	528	528	525	520										
26	525	529	531	517	529	536	533	533	538	494	503	514	507	512	518	518	489	518	516	517	518	518	519	527	519										
27	516	519	521	520	521	521	527	529	528	520	513	507	519	505	502	508	503	512	521	523	523	525	525	522	518										
28	520	520	521	525	532	527	536	537	529	498	500	499	504	514	510	510	505	517	516	512	528	527	525	523	518										
29	523	516	525	521	528	525	528	529	524	518	516	509	509	513	520	523	523	528	526	528	517	528	527	523	522										
30	525	537	513	521	523	529	532	528	523	517	511	512	516	518	525	525	521	525	525	525	520	521	536	521	523										
31	521	521	521	523	528	534	532	532	528	520	521	519	520	521	518	516	525	530	522	525	525	521	518	524	524										
Mean	519	516	518	521	523	526	528	527	524	518	513	507	511	514	518	518	517	515	515	515	515	517	516	518	518										

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

103 ESKDALEMUIR (D)													12° +													JANUARY 1943									
	Hour G.M.T.																																		
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean										
1	35.3	35.7	35.6	35.8	35.8	35.5	35.3	35.1	34.9	34.8	35.8	36.9	37.6	38.0	37.2	36.6	36.7	37.0	37.0	36.0	31.9	28.6	26.6	31.3	35.0										
2	32.4	34.9	35.0	35.2	35.1	35.3	35.5	35.3	36.1	36.2	36.8	37.9	38.3	38.5	38.1	37.6	38.3	38.4	37.7	35.7	35.1	33.7	33.6	34.8	36.1										
3	35.5	35.8	35.9	36.0	36.7	36.0	35.2	34.8	34.3	33.7	34.8	37.0	37.9	39.5	39.9	41.4	37.2	36.3	37.2	36.8	35.7	34.2	30.5	27.9	35.8										
4 d	29.1	31.3	33.5	35.1	35.9	37.0	35.3	35.3	34.1	34.7	36.7	39.0	43.1	41.5	38.0	40.5	47.1	28.3	35.3	36.7	25.5	29.7	28.9	30.7	35.1										
5	32.6	35.6	35.7	35.5	34.1	37.0	36.7	35.1	35.0	34.8	36.1	37.1	38.4	38.9	38.3	37.3	37.6	34.6	35.7	34.2	33.1	30.8	25.9	33.4	35.1										
6	34.3	35.6	36.1	35.6	35.3	35.4	35.9	36.8	36.5	35.5	36.5	37.8	37.5	39.3	38.6	37.8	35.1	34.4	36.6	35.1	30.1	32.2	33.6	35.1	35.7										
7 q	34.9	34.9	35.2	34.9	34.8	35.1	35.0	34.3	34.3	33.5	35.2	36.7	37.9	38.7	37.6	36.2	35.9	35.2	35.2	35.0	34.4	34.3	33.7	34.1	35.3										
8	34.1	35.0	35.0	35.1	35.8	35.5	35.3	35.0	34.4	33.7	34.3	36.2	37.6	37.9	39.1	38.7	37.3	37.1	36.3	35.9	30.9	30.5	31.7	31.1	35.1										
9	30.9	32.4	34.4	32.4	33.4	34.1	36.1	36.2	37.8	38.6	34.8	34.5	36.2	38.0	38.4	37.1	36.5	36.9	37.1	36.0	35.0	33.3	33.7	34.2	35.3										
10	34.1	33.3	32.7	33.5	34.2	35.0	35.5	34.8	34.3	34.5	35.9	37.1	36.7	38.6	38.5	36.8	36.0	36.0	35.9	35.3	35.0	30.6	28.7	32.2	34.8										
11 q	34.1	34.3	34.9	34.4	34.5	35.5	35.7	35.2	34.9	34.4	35.3	36.2	36.5	37.7	37.9	37.9	37.8	36.9	36.2	35.5	35.0	31.7	33.4	32.8	35.4										
12	33.4	34.0	33.5	33.7	34.7	34.7	34.3	35.2	35.2	33.8	34.5	35.5	37.1	37.8	37.9	37.1	37.0	37.4	37.1	36.2	36.0	32.5	31.4	31.7	35.1										
13 q	33.9	35.5	34.9	34.1	34.2	34.7	34.6	34.5	34.9	35.0	35.8	37.2	37.0	37.0	37.6	36.9	36.2	35.7	35.2	35.1	34.4	34.2	34.0	34.2	35.3										
14 q	34.3	34.5	34.9	34.3	34.4	34.3	34.2	34.2	34.1	34.1	35.2	35.9	36.8	37.3	36.8	35.9	35.2	35.1	35.0	35.0	34.9	34.2	34.2	34.5	35.0										
15 q	34.9	35.1	35.3	35.3	35.9	35.2	35.1	34.4	33.6	33.4	34.6	35.5	36.7	37.9	37.8	37.0	36.8	36.1	36.0	35.8	35.1	32.9	32.6	34.2	35.3										
16	35.0	35.2	35.2	35.2	35.2	35.1	35.0	34.5	34.1	34.1	35.0	35.2	37.0	39.1	39.4	39.4	39.8	38.0	35.2	37.1	34.3	33.9	32.7	31.1	35.7										
17 d	29.5	32.2	35.3	35.0	34.7	34.3	33.9	35.3	36.1	35.8	35.4	39.9	41.7	41.2	43.0	38.7	38.0	38.7	34.5	25.3	28.1	32.4	32.2	30.8	35.1										
18	30.4	32.5	34.3	35.3	35.3	34.7	35.0	35.0	34.8	34.6	36.0	36.3	37.2	39.1	37.8	36.3	35.6	35.5	30.6	34.3	33.7	33.5	33.2	33.4	34.8										
19	35.3	33.3	35.3	33.9	34.3	34.2	34.2	33.5	33.4	34.4	35.1	35.8	37.4	37.3	36.3	35.4	35.0	34.3	34.9	34.7	32.7	30.1	30.5	32.1	34.3										
20 d	34.9	34.9	35.3	35.0	35.1	34.7	34.9	36.2	36.0	35.1	35.5	38.2	39.1	40.2	40.8	42.6	39.9	36.8	21.6	23.2	18.9	0.0	21.7	28.5	32.5										
21 d	31.2	34.1	38.7	36.1	35.1	35.3	35.5	38.1	38.8	36.3	35.4	36.9	39.0	39.1	36.9	31.4	35.4	35.1	34.4	34.1	30.9	28.0	26.0	31.4	34.7										
22 d	24.3	30.4	34.2	34.9	35.4	35.2	35.1	34.3	35.1	34.9	34.7	36.2	37.8	40.0	36.7	37.3	38.3	25.7	26.8	34.0	32.1	27.5	27.9	31.7	33.4										
23	36.4	38.1	35.4	35.1	34.6	36.8	35.4	33.3	32.4	33.1	34.3	35.1	37.9	37.9	36.1	35.5	34.4	34.7	34.7	34.6	33.6	29.9	32.1	32.7	34.8										
24	34.5	32.7	37.2	33.4	32.4	33.4	33.5	33.7	32.8	33.4	34.4	35.5	38.7	39.7	37.8	36.2	35.5	34.5	35.1	34.2	29.9	33.3	33.4	33.2	34.5										
25	32.5	33.6	34.3	34.5	35.0	35.5	34.7	33.5	32.9	33.4	33.7	35.8	37.0	37.7	36.8	36.1	36.1	36.0	35.7	35.5	34.3	34.0	34.1	34.2	34.9										
26	34.1	34.7	31.7	29.3	32.2	34.0	34.5	34.3	34.6	36.5	41.3	37.9	38.3	39.0	38.8	37.8	37.1	36.5	36.0	35.2	33.8	32.5	29.6	32.5	35.1										
27	32.0	34.7	34.9	34.8	35.0	35.0	34.8	34.3	33.4	33.8	35.1	36.0	38.8	39.3	37.1	37.8	36.0	33.1	35.8	35.1	34.1	33.6	33.6	34.0	35.1										
28	34.4	34.3	34.4	35.2	36.0	35.8	35.2	34.6	34.9	35.5	37.8	38.8	40.0	40.6	39.1	36.8	35.0	33.1	35.5	31.5	32.4	33.3	34.0	34.3	35.5										
29	31.6	33.5	34.6	33.9	34.6	34.6	34.6	34.1	33.8	34.2	35.3	35.3	36.8	37.6	37.3	36.1	35.5	35.2	35.1	34.6	33.7	31.1	34.3	34.2	34.7										
30	34.6	32.3	35.2	34.3	34.5	34.5	34.2	34.1	33.3	33.7	35.1	36.2	37.7	37.8	37.1	35.9	35.1	35.2	35.2	35.0	34.3	30.6	28.9	31.8	34.4										
31	34.0	34.4	35.0	35.3	35.5	34.3	35.0	35.0	34.1	33.5	34.5	35.6	37.6	38.7	39.4	38.8	37.0	36.1	36.7	35.7	35.1	31.7	33.6	33.5	35.4										
Mean	33.2	34.1	34.9	34.6	34.8	35.0	35.0	34.8	34.7	34.6	35.5	36.6	38.0	38.7	38.1	37.3	36.9	35.3	34.9	34.5	32.7	30.9	31.3	32.6	35.0										

104 ESKDALEMUIR (V)		44,000γ (0.44 C.G.S. unit) +												JANUARY 1943												
	Hour G.M.T.																								Mean	
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24		
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1062	1061	1061	1062	1062	1062	1062	1062	1062	1060	1057	1055	1054	1055	1057	1058	1057	1058	1060	1068	1079	1085	1084	1078	1063	1063
2	1069	1063	1063	1063	1062	1062	1062	1062	1062	1061	1061	1058	1058	1060	1061	1066	1069	1073	1072	1070	1069	1070	1069	1067	1065	1065
3	1063	1061	1057	1057	1058	1056	1057	1057	1057	1060	1061	1057	1056	1061	1067	1064	1064	1063	1062	1067	1069	1073	1079	1076	1063	1063
4 d	1057	1055	1061	1060	1055	1057	1060	1059	1061	1061	1061	1072	1070	1081	1087	1073	1085	1135	1121	1097	1091	1067	1072	1073	1074	
5	1064	1060	1033	1044	1056	1056	1052	1057	1062	1068	1063	1062	1062	1066	1072	1074	1076	1082	1081	1075	1068	1058	1060	1062	1063	
6	1060	1061	1064	1066	1066	1063	1058	1056	1060	1063	1067	1063	1062	1064	1067	1069	1073	1073	1070	1072	1068	1065	1067	1067	1065	
7 q	1067	1066	1067	1067	1064	1063	1062	1061	1061	1062	1061	1061	1061	1061	1063	1067	1069	1068	1067	1066	1066	1067	1067	1067	1065	
8	1067	1067	1067	1067	1065	1063	1062	1061	1059	1061	1060	1061	1061	1062	1063	1064	1067	1067	1068	1072	1081	1083	1075	1055	1066	
9	1054	1061	1059	1057	1056	1055	1054	1056	1056	1058	1060	1061	1062	1063	1064	1067	1068	1069	1069	1072	1072	1073	1070	1067	1063	
10	1068	1067	1067	1067	1064	1063	1063	1062	1062	1061	1062	1062	1061	1060	1063	1067	1067	1068	1069	1069	1072	1069	1062	1064	1065	
11 q	1064	1063	1064	1064	1064	1062	1062	1061	1061	1056	1056	1057	1056	1057	1061	1066	1067	1067	1068	1068	1068	1072	1069	1067	1063	
12	1067	1064	1062	1062	1062	1061	1061	1061	1061	1062	1063	1062	1060	1061	1063	1064	1063	1065	1066	1068	1069	1076	1076	1073	1065	
13 q	1068	1061	1056	1058	1061	1061	1061	1058	1057	1057	1057	1056	1059	1060	1063	1063	1064	1063	1063	1063	1063	1063	1061	1060	1061	
14 q	1058	1060	1060	1061	1061	1061	1058	1058	1058	1057	1058	1057	1055	1057	1061	1062	1061	1062	1062	1062	1062	1062	1062	1062	1060	
15 q	1061	1061	1061	1060	1060	1059	1058	1059	1061	1060	1057	1056	1055	1055	1061	1062	1060	1060	1060	1061	1063	1070	1070	1066	1061	
16	1063	1062	1061	1061	1060	1059	1058	1057	1056	1055	1055	1056	1055	1056	1062	1067	1067	1072	1076	1076	1078	1078	1079	1073	1064	
17 d	1063	1062	1061	1061	1058	1057	1055	1054	1055	1051	1055	1057	1061	1066	1074	1097	1091	1123	1105	1104	1085	1074	1069	1052	1070	
18	1052	1060	1061	1061	1061	1061	1060	1060	1062	1063	1062	1062	1063	1069	1070	1069	1069	1069	1078	1076	1072	1069	1069	1066	1065	
19	1060	1059	1057	1056	1057	1060	1060	1061	1061	1061	1061	1063	1062	1066	1067	1067	1067	1069	1072	1072	1073	1075	1068	1066	1064	
20 d	1061	1062	1062	1062	1061	1059	1060	1058	1060	1061	1061	1062	1061	1070	1079	1090	1102	1151	1189	1216	1169	1074	1084	1073	1087	
21 d	1058	1066	1037	1030	1055	1062	1067	1066	1067	1069	1082	1087	1084	1086	1103	1104	1088	1084	1080	1081	1085	1082	1067	1067	1073	
22 d	1042	1032	1054	1061	1063	1065	1064	1064	1066	1068	1070	1072	1071	1083	1087	1085	1093	1114	1105	1090	1085	1080	1061	1069	1073	
23	1062	1053	1061	1069	1069	1069	1067	1069	1070	1065	1065	1069	1069	1073	1075	1076	1076	1076	1074	1073	1073	1070	1068	1067	1069	
24	1068	1069	1063	1060	1065	1067	1067	1067	1067	1067	1065	1069	1067	1070	1074	1078	1078	1077	1075	1076	1076	1073	1069	1069	1070	
25	1064	1067	1068	1068	1068	1068	1066	1067	1066	1064	1063	1062	1062	1065	1071	1073	1073	1072	1070	1070	1070	1069	1068	1068	1068	
26	1067	1066	1056	1061	1058	1053	1055	1056	1056	1061	1062	1068	1066	1066	1070	1076	1086	1076	1075	1075	1074	1074	1070	1061	1066	
27	1061	1063	1066	1067	1067	1067	1066	1066	1067	1067	1065	1064	1064	1073	1079	1079	1081	1084	1075	1074	1072	1069	1068	1068	1070	
28	1068	1067	1067	1066	1064	1064	1064	1064	1066	1068	1069	1072	1069	1074	1077	1079	1082	1083	1079	1080	1075	1070	1069	1068	1071	
29	1066	1067	1063	1063	1063	1063	1063	1064	1066	1062	1061	1063	1063	1064	1069	1072	1071	1069	1069	1069	1073	1069	1067	1066	1066	
30	1064	1055	1058	1052	1058	1061	1061	1062	1063	1063	1063	1064	1064	1066	1067	1068	1067	1067	1067	1067	1069	1070	1063	1061	1063	
31	1061	1061	1061	1061	1061	1061	1061	1061	1063	1067	1067	1064	1063	1064	1068	1068	1067	1067	1069	1070	1072	1076	1076	1068	1066	
Mean	1062	1061	1060	1061	1061	1061	1061	1061	1062	1062	1062	1063	1063	1066	1070	1072	1073	1078	1078	1078	1076	1072	1070	1067	1067	

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

105 ESKDALEMUIR												JANUARY 1943								
	TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.				
	Horizontal force				Declination				Vertical force											
	Maximum 16,000γ +		Minimum 16,000γ +		Range	Maximum 12° +		Minimum 12° +		Range	Maximum 44,000γ +						Minimum 44,000γ +		Range	
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ						
1	16 37	548	485	22 58	63	13 25	38.3	24.4	21 51	13.9	21 2	1087	1052	13 6	35	0, 0, 0, 1, 1, 1, 3, 3	9	0	84.9	
2	6 24	533	491	16 47	42	13 44	39.1	30.6	0 5	8.5	0 1	1073	1056	11 46	17	2, 1, 1, 1, 1, 3, 2, 1	12	0	84.9	
3	23 58	545	501	14 3	44	15 9	43.3	26.3	23 13	17.0	22 52	1081	1055	2 20	26	2, 2, 1, 1, 2, 2, 2, 3	15	0	85.0	
4 d	21 10	556	430	17 19	126	16 29	50.5	10.0	17 40	40.5	17 37	1151	1053	1 8	98	3, 2, 2, 4, 4, 5, 4, 4	28	1	84.9	
5	21 16	563	474	22 51	89	13 29	39.7	24.6	22 52	15.1	17 40	1087	1031	2 48	56	4, 2, 2, 2, 1, 3, 3, 4	21	1	84.9	
6	20 33	554	486	11 13	68	13 42	39.7	26.4	20 18	13.3	16 30	1074	1054	7 30	20	3, 2, 2, 2, 2, 2, 3, 3	19	1	84.9	
7 q	17 30	530	511	0 23	19	13 16	38.8	33.4	9 33	5.4	15 36	1070	1060	10 23	10	1, 0, 1, 0, 1, 0, 0, 2	5	0	84.9	
8	22 49	545	495	20 3	50	14 41	39.6	28.9	21 43	10.7	21 28	1085	1050	23 49	35	0, 1, 1, 0, 1, 2, 2, 3	10	0	84.8	
9	2 53	541	506	0 50	35	9 36	39.5	29.7	0 27	9.8	21 20	1074	1050	0 1	24	3, 2, 2, 2, 1, 2, 1, 2	15	0	84.8	
10	22 0	540	498	23 0	42	14 6	39.6	26.1	22 28	13.5	20 50	1074	1058	13 0	16	1, 1, 1, 1, 2, 2, 2, 3	13	0	84.8	
11 q	23 20	534	509	0 20	25	16 4	38.8	29.5	21 41	9.3	21 48	1073	1055	10 36	18	2, 1, 1, 1, 1, 2, 0, 2	10	0	84.7	
12	5 51	542	503	21 48	39	14 9	38.6	28.9	21 57	9.7	22 3	1080	1057	6 42	23	1, 2, 2, 1, 1, 1, 0, 2	10	0	84.7	
13 q	22 38	548	517	0 38	31	14 43	37.8	32.4	23 0	5.4	0 1	1069	1055	11 12	14	2, 1, 1, 1, 0, 1, 1, 2	9	0	84.7	
14 q	7 34	534	520	11 50	14	13 34	37.8	33.3	9 0	4.5	21 27	1063	1055	12 37	8	0, 1, 1, 0, 0, 0, 0, 0	2	0	84.7	
15 q	8 22	536	516	21 24	20	13 32	38.0	31.7	22 27	6.3	21 57	1072	1054	12 55	18	0, 1, 1, 0, 0, 0, 1, 2	5	0	84.6	
16	23 50	552	501	18 59	51	17 6	40.5	27.9	23 49	12.6	22 11	1081	1055	9 50	26	1, 0, 1, 1, 2, 3, 2, 3	13	0	84.4	
17 d	23 36	555	459	11 19	96	17 15	46.7	17.2	19 57	29.5	17 27	1142	1045	23 45	97	3, 2, 2, 4, 3, 4, 4, 3	25	1	84.3	
18	6 49	536	489	18 10	47	13 13	39.7	25.2	0 1	14.5	18 30	1080	1048	0 1	32	3, 2, 2, 2, 2, 2, 3, 1	17	0	84.2	
19	21 58	536	494	17 29	42	12 53	38.6	27.9	21 36	10.7	21 33	1076	1055	2 32	21	2, 1, 1, 1, 2, 3, 2, 3	15	0	84.2	
20 d	19 1	552	338	21 50	214	17 6	44.0	16.1	21 8	60.1	19 33	1294	1053	21 21	241	2, 2, 2, 2, 2, 4, 6, 6	26	2	84.0	
21 d	21 38	642	452	11 1	190	2 12	44.8	16.3	21 37	28.5	14 56	1114	1019	2 58	95	3, 3, 2, 3, 3, 2, 2, 5	23	1	83.9	
22 d	0 38	606	466	17 19	140	13 30	43.1	10.2	17 48	32.9	17 40	1129	1013	0 54	116	5, 2, 2, 3, 3, 5, 4, 4	28	1	83.8	
23	21 32	549	483	11 10	66	0 57	41.5	26.0	21 30	15.5	16 56	1078	1051	1 37	27	3, 2, 2, 3, 2, 2, 1, 3	18	1	83.7	
24	23 58	540	489	11 28	51	13 20	40.6	25.4	20 36	15.2	15 37	1080	1055	3 21	25	2, 2, 1, 3, 2, 2, 3, 3	18	0	83.7	
25	0 1	537	502	12 14	35	13 13	38.0	31.6	0 39	6.4	16 10	1074	1061	11 56	13	2, 1, 1, 1, 1, 1, 1, 1	9	0	83.5	
26	7 54	544	473	16 26	71	10 22	43.4	27.7	3 25	15.7	16 30	1091	1051	5 23	40	2, 2, 2, 3, 2, 3, 1, 3	18	1	83.5	
27	7 3	533	478	16 53	55	13 2	41.3	29.7	0 8	11.6	17 11	1087	1060	0 1	27	1, 0, 1, 2, 3, 3, 1, 0	11	0	83.6	
28	7 16	543	489	16 57	54	13 18	41.6	27.6	19 49	14.0	17 10	1086	1062	7 18	24	1, 2, 2, 2, 2, 3, 3, 1	16	1	83.6	
29	21 27	536	505	12 20	31	13 26	38.5	27.8	21 33	10.7	20 39	1073	1061	10 40	12	2, 1, 1, 1, 1, 1, 2, 2	11	0	83.6	
30	1 9	553	505	2 15	48	2 50	42.3	27.0	22 30	15.3	21 22	1072	1047	3 7	25	3, 2, 1, 1, 1, 1, 1, 3	13	0	83.7	
31	5 25	536	509	14 41	27	14 11	39.6	30.5	21 41	9.1	21 35	1076	1060	2 30	16	0, 1, 1, 1, 2, 2, 2, 2	11	0	83.6	
Mean	-	-	548	486	-	62	-	40.8	25.1	-	15.7	-	1092	1051	-	40	1.9	15.0	0.35	84.3

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

106 ESKDALEMUIR (H)

16,000γ (0.16 C.G.S. unit) +

FEBRUARY 1943

	Hour G.M.T.																								Mean
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
1	517	529	520	519	521	522	526	528	528	524	522	521	517	517	521	520	525	523	524	523	522	517	524	530	523
2	519	520	523	523	527	527	528	529	532	539	539	534	531	527	519	523	524	524	531	533	527	523	519	520	527
3	518	521	515	520	522	531	531	534	536	531	529	517	516	507	508	522	519	524	529	523	508	505	512	515	521
4 d	518	520	514	536	519	522	520	517	527	522	507	496	523	519	508	515	516	523	521	516	519	519	522	516	518
5	543	528	524	520	524	529	517	521	524	523	522	510	506	522	520	522	516	518	521	521	507	519	517	523	521
6	512	516	516	519	522	528	528	520	522	516	513	508	506	519	522	528	508	503	513	519	520	512	524	520	517
7	513	517	516	517	515	522	527	527	524	516	516	512	512	521	528	531	529	524	516	519	515	522	520	523	520
8	543	516	519	522	527	530	532	531	529	527	519	515	520	522	524	526	524	529	519	536	510	523	524	524	525
9	526	524	525	530	528	535	539	542	536	525	526	521	516	520	531	532	527	527	527	523	527	524	525	525	528
10 q	527	527	527	528	531	531	535	536	535	526	527	523	519	516	520	523	528	531	524	531	530	527	524	520	527
11	523	522	532	532	543	544	530	524	523	515	516	511	504	509	519	520	523	523	524	520	523	517	519	521	522
12 q	519	515	520	520	521	523	527	527	527	524	513	506	511	517	527	527	525	527	530	526	526	529	534	534	523
13 d	528	538	540	547	536	544	540	540	532	518	509	508	508	522	516	517	520	527	515	519	521	520	539	523	526
14	530	522	523	524	526	529	523	532	530	534	521	524	529	528	526	526	526	528	532	534	532	522	522	523	527
15 q	530	527	528	531	534	534	531	537	526	518	506	514	518	515	518	519	523	525	524	524	527	526	526	526	524
16	526	527	523	523	526	526	530	533	530	518	511	514	517	522	523	523	526	537	535	537	542	544	542	546	528
17 d	549	544	537	541	575	550	514	508	485	526	492	448	516	527	496	503	512	503	515	512	558	516	507	507	518
18	512	515	518	519	511	516	522	512	499	511	507	503	511	511	518	523	523	524	527	526	526	523	523	515	516
19	534	532	519	515	524	527	527	528	522	511	512	511	523	522	519	512	519	523	525	525	521	526	525	524	522
20	523	526	526	525	525	528	531	530	526	516	505	502	503	514	517	520	518	518	523	527	528	526	526	526	521
21 q	526	526	527	527	529	530	531	528	529	517	515	511	515	518	519	518	523	519	514	511	517	528	526	527	522
22	525	526	526	529	530	531	535	535	534	525	511	515	517	514	526	525	526	532	528	526	522	526	530	530	526
23	526	541	525	526	533	535	537	542	538	521	517	518	519	514	523	527	527	525	531	519	515	523	521	522	526
24	522	530	526	528	519	520	534	532	533	519	508	510	507	511	514	523	527	525	519	526	523	534	525	524	522
25 d	519	518	519	522	522	528	531	533	531	520	514	512	515	520	530	523	530	522	493	499	487	487	483	456	513
26 d	491	502	511	481	486	511	519	525	510	505	487	496	503	508	516	527	503	500	492	502	486	485	487	471	500
27	487	493	491	510	514	504	511	514	511	504	484	488	495	498	503	511	515	517	519	519	519	530	522	517	507
28 q	518	511	515	522	519	526	534	534	529	514	509	502	505	510	514	515	514	517	523	529	530	530	529	526	520
Mean	522	523	522	523	525	528	528	529	525	520	513	509	514	517	519	521	521	522	521	522	521	521	521	519	521

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

107 ESKDALEMUIR (D)

12° +

FEBRUARY 1943

	Hour G.M.T.																								Mean
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
1	32.6	33.2	31.5	33.4	33.7	33.6	33.1	32.9	32.5	32.6	34.3	36.6	37.7	38.2	38.9	38.5	37.7	37.2	36.4	36.2	35.0	34.1	30.4	29.2	34.6
2	33.7	33.6	34.0	33.9	34.1	33.4	33.3	33.4	33.5	34.0	35.0	35.9	36.2	37.7	37.3	37.7	38.0	37.1	36.2	35.8	35.2	34.4	33.3	32.8	35.0
3	32.8	28.1	30.4	31.1	32.1	32.2	33.2	33.5	33.4	34.2	36.3	36.9	38.7	40.8	41.3	39.7	38.8	37.4	36.2	36.1	29.2	29.7	30.0	30.7	34.3
4 d	32.4	34.1	34.3	33.7	32.3	32.6	32.2	33.2	33.3	35.2	35.7	36.0	39.0	39.5	39.6	38.3	39.0	36.8	37.6	36.4	34.4	33.3	32.9	32.3	35.2
5	35.4	34.5	33.2	31.7	33.3	32.6	32.5	34.2	34.3	34.1	36.2	37.6	37.8	37.9	38.0	37.7	32.9	35.0	35.4	35.0	27.5	33.7	31.9	32.7	34.4
6	35.3	37.6	34.2	35.2	33.9	33.6	32.9	34.3	36.2	35.6	36.4	36.2	36.2	37.5	38.3	36.9	36.3	33.4	38.2	36.3	33.9	31.1	27.2	31.8	34.9
7	31.2	31.9	34.1	34.8	35.4	34.8	33.6	33.5	32.9	32.8	34.4	35.5	36.0	37.3	37.8	37.7	37.8	38.3	38.3	36.9	34.5	32.1	30.6	31.2	34.7
8	31.1	32.3	32.7	33.6	34.6	34.6	34.2	34.2	34.1	34.1	35.3	36.2	37.8	38.7	38.9	38.0	37.5	36.0	35.0	29.5	33.2	33.4	33.3	33.0	34.6
9	33.5	34.0	34.3	35.1	35.1	34.3	34.0	34.5	34.9	34.1	35.0	36.2	37.9	37.9	38.0	37.0	35.9	35.3	35.1	32.4	30.5	33.5	33.2	33.6	34.8
10 q	34.1	34.3	34.2	34.3	34.1	34.2	34.1	34.1	34.0	34.1	35.2	36.8	38.6	39.1	39.6	38.0	37.1	36.9	34.4	35.0	35.0	34.2	31.6	31.6	35.2
11	31.9	33.5	35.1	34.4	33.3	32.8	32.6	32.7	32.6	33.1	34.3	37.1	37.8	38.6	38.0	36.8	35.5	35.0	35.0	35.1	32.8	34.1	32.7	32.2	34.5
12 q	31.6	31.6	32.1	30.9	31.9	34.2	34.1	33.5	33.3	33.8	34.5	36.9	38.0	38.9	38.8	37.6	36.8	36.4	35.4	34.7	31.5	30.7	32.3	33.3	34.3
13 d	33.5	34.0	32.7	31.5	34.4	33.5	34.9	34.3	33.7	33.8	35.3	36.7	37.7	39.2	39.4	37.3	36.9	36.8	34.8	33.5	33.7	33.0	30.6	32.8	34.7
14	35.0	32.9	33.2	33.8	33.7	33.7	34.7	34.4	34.1	34.2	36.9	37.3	37.2	37.2	37.0	35.5	35.0	35.1	35.2	35.0	35.0	32.6	32.6	33.6	34.8
15 q	36.7	34.3	33.7	34.0	34.1	33.6	34.3	34.3	34.3	34.0	34.5	36.0	37.8	37.2	37.0	35.5	34.8	34.2	34.1	32.8	33.0	33.5	34.1	34.2	34.7
16	34.3	34.3	34.2	34.1	33.6	33.5	33.4	32.7	32.2	31.5	33.5	35.5	36.8	36.9	36.5	35.5	34.9	35.3	35.0	34.3	34.4	34.3	34.3	34.2	34.4
17 d	34.2	33.7	34.5	37.1	38.8	35.7	37.3	39.4	44.2	40.9	38.2	38.6	37.0	37.6	37.4	33.6	33.6	31.9	32.6	30.5	25.8	25.4	26.2	30.8	34.8
18	32.5	34.3	36.7	38.8	33.2	33.3	33.1	33.3	34.5	33.3	33.7	35.5	36.9	37.8	37.0	36.2	35.0	33.9	34.4	34.1	34.1	33.6	30.7	30.1	34.4
19	30.3	29.6	35.0	32.5	33.2	33.4	33.7	34.1	34.2	32.8	34.6	35.7	38.1	38.1	36.9	35.8	33.6	34.1	34.1	33.3	32.3	32.5	32.9	33.3	33.9
20	33.5	34.0	34.6	34.4	33.9	35.0	33.3	33.2	32.6	32.4	34.1	37.3	39.3	39.7	40.0	37.6	34.9	32.2	34.8	34.1	33.4	33.2	33.3	33.3	34.8</

108 ESKDALEMUIR (V)		44,000γ (0.44 C.G.S. unit) +												FEBRUARY 1943											
	Hour G.M.T.																								
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1063	1061	1062	1063	1063	1063	1063	1063	1063	1063	1062	1062	1063	1066	1066	1066	1067	1070	1070	1072	1073	1078	1079	1069	1066
2	1068	1067	1067	1063	1062	1061	1061	1058	1058	1060	1057	1058	1061	1062	1063	1067	1067	1067	1067	1067	1069	1072	1073	1072	1064
3	1072	1069	1063	1061	1060	1056	1055	1055	1057	1056	1054	1055	1060	1063	1065	1068	1073	1071	1068	1070	1083	1081	1076	1069	1065
4 d	1067	1066	1060	1044	1038	1044	1052	1057	1057	1054	1058	1063	1061	1063	1070	1074	1074	1075	1074	1080	1085	1079	1078	1077	1065
5	1063	1054	1055	1058	1059	1057	1057	1055	1056	1057	1057	1058	1064	1069	1072	1073	1076	1075	1072	1072	1080	1070	1070	1069	1065
6	1068	1051	1059	1066	1067	1064	1063	1061	1057	1061	1061	1063	1064	1066	1069	1070	1080	1091	1082	1081	1079	1080	1075	1069	1069
7	1068	1063	1063	1063	1064	1066	1067	1064	1063	1064	1063	1064	1066	1064	1070	1073	1073	1070	1073	1075	1079	1079	1075	1070	1068
8	1056	1061	1063	1064	1064	1063	1062	1062	1061	1061	1060	1061	1061	1062	1066	1069	1069	1069	1073	1070	1073	1070	1068	1066	1065
9	1064	1063	1062	1062	1061	1058	1056	1054	1052	1055	1055	1061	1061	1061	1062	1067	1068	1067	1067	1069	1069	1063	1063	1062	1062
10 q	1062	1062	1062	1062	1062	1062	1061	1057	1057	1059	1056	1054	1055	1060	1063	1064	1066	1068	1069	1067	1065	1067	1069	1068	1062
11	1066	1064	1061	1060	1056	1051	1049	1051	1053	1057	1057	1055	1055	1057	1063	1068	1069	1069	1068	1067	1067	1069	1069	1067	1061
12 q	1064	1062	1059	1060	1060	1061	1062	1062	1062	1061	1061	1057	1051	1052	1059	1062	1062	1063	1063	1065	1067	1062	1060	1057	1061
13 d	1056	1055	1051	1051	1052	1053	1055	1055	1057	1061	1059	1054	1053	1056	1061	1063	1063	1064	1070	1072	1069	1069	1060	1061	1059
14	1056	1057	1061	1059	1060	1060	1061	1059	1059	1057	1057	1058	1057	1056	1057	1061	1061	1061	1061	1061	1061	1065	1067	1062	1060
15 q	1056	1055	1057	1057	1057	1057	1056	1055	1057	1061	1060	1058	1059	1062	1064	1066	1064	1064	1064	1063	1064	1063	1063	1062	1060
16	1062	1061	1061	1061	1061	1061	1061	1060	1061	1061	1057	1057	1060	1061	1060	1061	1061	1059	1060	1060	1059	1057	1060	1058	1060
17 d	1056	1057	1057	1055	1034	1025	1034	1042	1051	1046	1058	1097	1082	1076	1079	1082	1081	1081	1079	1080	1069	1054	1054	1056	1062
18	1061	1061	1056	1045	1052	1057	1060	1061	1062	1061	1057	1055	1058	1064	1067	1071	1071	1070	1067	1063	1063	1064	1064	1063	1061
19	1054	1043	1036	1045	1053	1055	1056	1055	1057	1061	1060	1061	1062	1066	1069	1075	1075	1071	1068	1067	1067	1067	1065	1064	1061
20	1063	1062	1062	1062	1062	1059	1061	1061	1062	1061	1060	1060	1056	1057	1062	1067	1070	1072	1067	1064	1063	1066	1064	1063	1063
21 q	1062	1062	1062	1062	1062	1062	1061	1062	1062	1061	1060	1054	1054	1058	1067	1070	1069	1069	1070	1074	1073	1070	1066	1064	1064
22	1063	1063	1063	1063	1063	1062	1061	1061	1061	1057	1056	1053	1054	1057	1061	1067	1067	1067	1067	1067	1069	1068	1064	1062	1062
23	1064	1057	1058	1060	1061	1060	1057	1057	1057	1058	1055	1054	1052	1054	1057	1063	1066	1066	1065	1070	1075	1066	1060	1060	1061
24	1058	1054	1054	1054	1055	1056	1055	1057	1056	1061	1062	1061	1061	1063	1066	1068	1069	1072	1072	1070	1069	1067	1060	1053	1061
25 d	1055	1055	1059	1060	1060	1060	1060	1059	1060	1062	1061	1058	1057	1058	1061	1066	1073	1090	1119	1138	1127	1103	1096	1078	1074
26 d	1057	1045	1022	1037	1041	1042	1060	1061	1064	1066	1072	1069	1067	1067	1070	1081	1094	1106	1115	1113	1114	1105	1091	1079	1072
27	1063	1048	1042	1042	1054	1058	1067	1069	1069	1065	1062	1063	1063	1068	1067	1069	1072	1074	1073	1074	1074	1072	1068	1066	1064
28 q	1063	1063	1063	1061	1061	1063	1063	1064	1067	1068	1063	1061	1062	1066	1069	1072	1075	1075	1073	1071	1068	1067	1066	1066	1066
Mean	1062	1059	1057	1057	1057	1057	1058	1059	1059	1060	1059	1060	1060	1062	1065	1069	1071	1072	1073	1074	1074	1071	1069	1065	1064

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

109 ESKDALEMUIR												FEBRUARY 1943					
	TERRESTRIAL MAGNETIC ELEMENTS											3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +		
	Horizontal force			Declination			Vertical force										
	Maximum 16,000γ +	Minimum 16,000γ +	Range	Maximum 12° +	Minimum 12° +	Range	Maximum 44,000γ +	Minimum 44,000γ +	Range								
	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ				°A.	
1	23 2	555	509 22 18	46	14 57	40.1	26.0 23 0	14.1	22 21	1082	1058	1 42	24	2, 1, 1, 0, 1, 2, 1, 3	11	0	83.6
2	8 49	546	510 14 19	36	12 59	38.6	31.2 23 22	7.4	22 40	1074	1057	7 22	17	1, 1, 2, 2, 2, 2, 1, 2	13	0	83.5
3	8 44	546	496 21 25	50	14 27	42.2	26.8 1 28	15.4	20 40	1087	1052	10 55	35	2, 2, 2, 2, 2, 2, 3, 3	18	1	83.5
4 d	3 14	543	472 11 9	71	14 23	41.3	29.7 4 29	11.6	20 22	1087	1035	4 19	52	2, 3, 2, 3, 2, 2, 2, 2	18	1	83.6
5	0 22	567	487 20 18	80	12 50	39.4	22.4 20 29	17.0	20 36	1084	1054	1 21	30	3, 1, 2, 2, 3, 2, 3, 2	18	1	83.5
6	22 21	543	488 17 7	55	0 54	42.5	22.4 22 16	20.1	17 22	1093	1049	1 29	44	3, 2, 2, 2, 2, 3, 2, 3	19	1	83.4
7	21 55	539	508 12 8	31	18 50	38.8	27.1 21 51	11.7	21 30	1081	1061	2 51	20	2, 2, 1, 1, 2, 2, 2, 2	14	0	83.5
8	19 12	580	500 20 21	80	14 12	39.5	23.6 19 7	15.9	18 59	1080	1055	0 37	25	3, 1, 1, 1, 1, 2, 4, 1	14	0	83.5
9	7 50	544	512 1 8	32	13 52	38.6	28.8 20 10	9.8	19 55	1072	1051	8 3	21	2, 1, 1, 1, 2, 1, 2, 1	11	0	83.5
10 q	7 41	542	512 13 45	30	13 36	39.8	29.8 22 50	10.0	18 36	1071	1054	11 23	17	0, 0, 1, 1, 1, 1, 2, 1	7	0	83.5
11	5 33	550	499 12 35	51	13 22	38.9	30.7 23 57	8.2	16 42	1070	1048	7 3	22	2, 2, 2, 2, 2, 0, 1, 2	13	0	83.5
12 q	21 9	554	504 11 38	50	13 15	39.6	29.5 21 26	10.1	20 10	1069	1050	12 45	19	2, 2, 1, 1, 2, 1, 2, 3	14	0	83.5
13 d	3 20	558	500 12 8	58	13 17	42.8	29.6 22 33	13.2	19 0	1074	1049	3 23	25	2, 2, 2, 2, 3, 2, 2, 3	18	1	83.4
14	9 40	542	515 22 1	27	11 20	38.5	30.1 21 52	8.4	22 0	1069	1054	0 52	15	2, 1, 2, 2, 1, 0, 1, 2	11	0	83.3
15 q	7 44	541	499 10 27	42	12 39	38.7	31.6 19 5	7.1	15 30	1067	1054	1 0	13	2, 0, 2, 2, 1, 1, 2, 0	10	0	83.4
16	20 58	565	507 10 40	58	13 15	37.6	31.4 9 46	6.2	8 44	1063	1055	21 0	8	1, 0, 1, 1, 1, 2, 3, 2	11	0	83.3
17 d	20 48	606	386 11 6	220	8 58	50.3	15.3 20 33	35.0	11 38	1108	1021	5 32	87	3, 4, 3, 5, 4, 3, 5, 4	31	2	83.2
18	13 2	534	487 13 21	47	2 53	42.2	27.9 22 36	14.3	16 24	1072	1044	3 38	28	3, 3, 3, 3, 3, 1, 0, 2	18	1	83.2
19	0 35	542	495 15 55	47	12 18	40.4	27.1 0 45	13.3	16 44	1078	1032	2 41	46	3, 2, 2, 2, 3, 3, 1, 1	17	1	83.1
20	6 53	534	491 11 6	43	14 12	41.3	30.4 17 7	10.9	17 19	1074	1055	12 31	19	1, 1, 0, 2, 2, 2, 1, 1	10	0	83.1
21 q	6 38	533	507 19 18	26	13 10	40.4	28.5 21 15	11.9	19 40	1075	1052	12 34	23	0, 0, 1, 1, 1, 1, 2, 2	8	0	83.1
22	8 33 } 23 6 }	537	506 13 20	31	12 34	38.5	31.1 20 41	7.4	21 0	1070	1052	11 44	18	1, 0, 1, 2, 2, 1, 2, 2	11	0	83.0
23	7 51	546	499 20 10	47	13 9	39.7	25.3 21 45	14.4	20 25	1078	1051	12 38	27	2, 2, 2, 1, 2, 2, 3, 3	17	1	83.1
24	21 22	565	495 11 41	70	14 11	39.0	25.0 21 42	14.0	18 24	1073	1051	1 52	22	2, 2, 2, 2, 2, 2, 2, 3	17	1	83.1
25 d	7 50	534	441 23 37	93	19 10	44.9	19.7 23 49	25.2	19 47	1157	1054	0 1	103	1, 1, 1, 1, 2, 3, 4, 4	17	1	83.0
26 d	2 10	557	461 0 1	96	19 30	41.3	11.8 2 42	29.5	18 32	1123	1019	2 13	104	5, 4, 2, 2, 2, 3, 4, 3	25	1	83.0
27	21 38	546	475 0 48 } 10 1 }	71	13 34	40.6	19.8 0 47	20.8	19 44	1078	1034	3 6	44	3, 2, 1, 2, 2, 1, 2, 3	16	1	82.9
28 q	7 12	537	496 11 58	41	13 59	38.6	30.6 1 7	8.0	16 52	1075	1060	3 50	15	1, 1, 1, 1, 1, 1, 2, 0	8	0	82.9
Mean	- -	549	491 - -	58	- -	40.5	26.5 - -	14.0	- -	1082	1049 - -	33		1.9	14.8	0.50	83.3

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

110 ESKDALEMUIR (H)

16,000γ (0.16 C.G.S. unit) +

MARCH 1943

	Hour G.M.T.																									
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	
1	526	527	526	526	528	533	542	541	537	533	527	526	526	523	525	497	505	503	518	523	527	527	527	527	530	525
2	530	530	523	521	530	533	538	512	471	466	498	505	515	516	516	511	512	511	518	522	519	523	525	524	515	
3	517	516	514	514	517	521	529	533	532	513	494	502	506	504	511	510	514	515	518	510	501	490	510	518	513	
4	533	516	517	521	527	526	533	514	502	502	502	485	497	517	522	522	508	510	504	510	517	554	495	516	515	
5	513	524	509	522	522	515	514	498	517	509	504	502	498	506	511	518	511	507	503	518	516	518	518	521	512	
6	528	517	517	520	524	521	520	518	517	513	506	507	517	517	518	525	522	517	525	525	518	511	522	523	519	
7	526	524	524	522	525	528	525	527	520	510	506	502	502	511	517	518	523	522	533	520	513	513	513	509	518	
8	524	528	502	521	517	521	521	520	520	511	516	510	506	514	518	522	527	513	526	530	526	525	513	516	519	
9	521	510	527	523	525	529	529	522	521	517	519	518	518	518	529	525	517	514	528	532	522	541	525	525	523	
10 q	522	529	529	526	527	529	529	531	529	525	518	510	509	517	522	522	524	522	522	521	522	518	521	523	523	
11	515	517	528	524	527	529	529	526	525	513	506	502	504	505	524	533	541	548	557	518	522	498	498	511	521	
12	536	522	506	537	516	526	527	525	525	521	510	505	498	501	522	492	513	510	521	525	525	510	529	532	518	
13 q	524	518	522	518	521	522	524	522	517	504	494	490	497	510	510	517	518	522	526	529	529	530	529	533	518	
14	529	525	518	522	535	530	525	529	522	501	502	495	496	505	521	506	518	530	533	533	533	527	529	529	521	
15 q	526	526	525	528	529	529	529	526	520	505	494	497	503	514	515	524	524	523	532	534	536	536	534	534	523	
16 d	536	532	533	532	541	536	548	537	536	474	432	467	499	490	495	509	498	516	526	517	495	510	525	541	514	
17	501	511	518	522	521	523	524	524	514	502	483	470	483	501	511	514	515	522	521	523	525	529	529	535	513	
18	522	524	526	526	525	524	529	522	505	498	495	493	497	502	513	518	521	516	519	528	533	534	536	535	518	
19	533	529	528	529	533	533	536	530	526	518	510	501	505	517	521	540	522	536	541	540	541	532	526	529	527	
20 d	533	533	524	527	533	534	529	529	497	494	490	503	502	502	506	502	525	524	511	504	513	521	525	529	516	
21	533	527	522	518	522	527	521	529	519	503	490	482	498	505	515	522	514	516	533	526	541	540	536	537	520	
22	541	541	534	536	534	536	538	532	524	509	484	489	506	525	529	521	517	522	527	513	514	490	530	517	521	
23 d	517	496	461	517	509	508	502	489	481	482	482	481	482	501	512	516	515	532	520	523	540	520	524	529	506	
24	516	517	520	520	524	524	514	513	512	504	494	490	475	505	514	521	512	522	524	527	528	525	526	524	515	
25 q	524	524	524	525	517	526	533	529	520	504	493	489	490	497	505	513	520	527	530	532	530	528	526	526	518	
26	536	533	528	527	532	529	528	532	529	514	505	498	508	517	523	528	517	527	530	533	533	537	536	545	526	
27	533	528	528	532	532	533	533	532	524	512	505	499	505	511	514	514	516	522	528	529	527	527	532	530	523	
28 q	529	528	528	528	532	532	536	533	523	509	497	493	491	502	512	526	528	532	532	539	539	524	528	529	523	
29 d	524	524	530	540	530	522	526	528	521	516	512	519	517	529	539	540	501	528	578	528	458	435	411	480	514	
30 d	474	462	489	501	502	502	494	492	490	491	465	474	499	515	493	516	519	528	524	524	547	516	493	500	500	
31	502	486	497	494	503	512	521	512	505	502	495	498	493	504	510	526	527	529	505	509	506	516	529	509	508	
Mean	523	520	519	523	525	526	527	523	516	506	498	497	501	510	516	518	517	521	526	524	523	519	519	524	518	

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

111 ESKDALEMUIR (D)

12° +

MARCH 1943

	Hour G.M.T.																									
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	'9-20	20-21	21-22	22-23	23-24	Mean	
1	33.6	33.7	33.6	33.5	33.5	33.5	33.4	33.3	32.6	32.5	33.2	35.3	38.1	39.2	40.5	39.1	41.0	37.3	36.0	35.2	34.0	33.4	33.1	32.8	35.1	
2	33.3	33.4	31.6	33.5	33.1	32.8	32.9	33.3	32.4	38.7	40.8	39.6	38.8	39.7	39.1	37.3	36.2	36.1	36.0	34.3	33.5	33.7	33.4	33.5	35.3	
3	32.7	32.7	32.6	32.5	32.4	32.5	32.5	32.4	31.9	31.5	35.0	38.0	41.6	39.9	39.6	38.4	36.8	35.2	35.0	34.2	29.8	24.1	28.1	30.7	33.8	
4	33.2	30.4	29.6	31.1	31.6	30.7	31.0	30.5	35.0	36.2	38.4	38.7	39.0	38.3	38.1	38.9	38.4	33.6	33.3	33.1	28.8	26.3	28.7	32.2	33.6	
5	29.8	30.9	32.4	33.3	29.0	29.8	32.1	37.6	35.1	34.0	33.7	35.0	37.0	38.8	38.7	38.9	37.0	26.7	32.5	32.4	33.6	29.4	30.6	32.5	33.4	
6	33.6	33.1	32.8	32.5	32.4	32.2	32.6	32.7	32.0	31.3	32.7	35.1	39.0	38.2	39.5	38.0	37.7	36.2	35.9	33.7	26.6	31.4	32.4	30.9	33.9	
7	33.7	33.6	32.8	32.5	33.2	32.8	32.5	32.4	31.6	31.3	32.5	35.6	38.4	40.4	39.8	39.0	37.1	36.8	31.4	33.7	29.9	29.3	29.3	29.8	33.7	
8	29.9	29.8	30.8	33.6	30.6	31.7	31.6	30.9	30.7	31.5	33.9	36.0	39.1	40.4	39.7	38.9	38.6	36.0	34.0	34.4	34.2	32.2	30.8	32.3	33.8	
9	31.0	31.6	34.2	33.1	33.3	33.2	32.4	34.3	33.6	34.0	36.1	36.8	39.3	38.6	38.9	37.9	37.0	35.7	35.2	34.9	33.1	34.3	32.8	31.7	34.7	
10 q	31.5	33.5	32.6	32.7	33.3	33.2	32.6	32.5	31.9	31.3	32.4	34.5	36.2	38.3	38.9	38.7	37.2	36.4	35.1	34.9	32.9	32.3	29.3	26.9	33.7	
11	29.5	32.2	32.5	30.5	30.1	31.3	32.2	32.3	31.5	31.5	33.9	36.2	39.0	39.6	39.5	39.1	39.8	40.1	43.5	39.6	35.1	26.5	25.4	32.3	34.3	
12	35.2	29.6	34.4	35.0	32.1	33.3	32.3	31.5	31.3	31.8	34.0	37.8	39.8	39.5	39.2	36.7	33.9	36.0	34.4	30.5	32.6	30.5	29.8	32.3	33.9	
13 q	32.8	33.6	35.8	33.2	32.1	32.0	32.1	31.5	31.1	30.9	32.6	34.6	36.6	38.3	36.9	36.1	34.4	34.4	34.3	34.2	34.1	33.7	33.2	32.1	33.8	
14	32.4	32.7	35.2	35.9	35.8	32.2	31.3	31.2	31.6	31.4	33.1	36.1	38.8	39.3	39.9	37.2	34.0	33.5	33.7	33.5	33.4	33.2	32.3	33.5	34.2	
15 q	33.3	33.2	33.3	32.9	32.7	32.5	31.9	30.6	29.7	29.9	32.7	36.3	38.1	38.7	37.2	36.2	34.5	34.1	34.4	34.4	34.2	34.1	33.2	32.8	33.8	
16 d	33.7	33.7	33.9	32.2	31.5	30.7	37.8	33.7	34.4	31.1	40.1	41.1	41.5	42.6	40.1	38.0	36.0	33.5	33.6	31.1	18.2	27.0	32.0	30.3	34.1	
17	30.3	32.2	32.5	32.9	32.8	32.2	32.0	30.5	29.3	28.9	32.3	36.9	39.1	39.5	39.6	38.5	35.3	33.2	33.3	33.4	32.8	30.1	30.5	32.4	33.4	
18	33.2	33.3	33.4	33.3	32.6	32.3	31.3	30.8	31.4	32.8	34.3	37.5	39.3	39.7	38.5	36.5	35.0	31.7	30.8	34.1	34.2	34.1	34.2	34.2	34.1	
19	32.4	33.3	33.3	33.1	32.6	32.2	31.3	30.0	28.9	30.1	34.1	36.1	38.9	40.6	39.7	39.0	36.8	36.1	36.0	32.8	33.7	22.4	27.9	32.6	33.5	
20 d	33.1	33.4	35.7	34.5	32.4	31.5	30.9	29.7	30.9	35.9	36.9	37.1	40.8	42.5	42.4	36.7	36.4	36.0	14.4	28.8	30.7	32.6	33.2	33.4	33.7	
21	32.3	32.2	33.2	33.4	32.7	32.1	32.6	32.4	32.1	33.2	35.9	38.8	41.8	41.9	40.4	38.9	37.1	34.9	34.4	33.5	33.3	33.4	33.3	32.8	34.9	
22	32.3	32.7	31.9	32.5	33.2	32.3	31.3	29.6	29.9	31.6	35.4	38.3	39.9	40.6	40.4	40.5	35.4	34.6	33.5	27.0	18.8	18.8	22.7	25.2	32.1	
23 d	28.2	24.9	28.9	37.3	36.8	34.1	35.5	31.2	31.0	30.1	32.6	35.0	35.9	37.6	38.6	38.2	34.8	32.5	31.2	27.3	25.2	28.0	30.4	34.0	32.5	
24	34.1	33.8	33.2	33.3	32.3	31.3	31.1	34.4	31.7	30.8	32.2	35.8	37.1	38.1	38.5	37.9	31.7	29.9	34.1	33.6	33.3	33.2	32.9	32.6	33.6	
25 q	32.8	33.5	33.2	34.4	35.2	36.7	33.2	31.3	30.4	30.4	32.2	35.3	38.1	38.9	38.8	37.8	36.7	35.1	34.2	33.7	33.7	33.3	32.1	32.4	34.3	
26	35.3	35.1	31.4	32.1	32.2	32.4	32.7	32.2	30.7	30.3	31.9	34.3	38.0	40.4	39.1	37.8	35.3	34.0	33.6	33.7	34.0	33.7	33.2	33.5	34.0	
27	32.3	32.3	32.3	31.6	31.4	31.5	31.4	30.0	29.0	30.4	32.5	35.3	37.1	38.7	38.7	37.7	36.2	34.9	31.7	31.3	29.3	31.5	33.1	33.1	33.1	
28 q	32.8	32.8	32.6	32.5	32.4	32.4	32.0	30.7	30.2	29.8	31.9	35.5	38.3	39.7	38.9	37.9	36.0	34.8	33.9	33.9	33.4	31.3	29.6	30.0	33.5	
29 d	30.6	32.0	31.7	29.8	28.7	29.5	30.6	29.1	28.0	28.8	31.1	36.2	41.2	42.7	45.0	46.3	44.6	38.0	36.1	33.7	13.1	9.8	20.7	18.2	31.5	
30 d	18.7	16.9	18.9	21.2	22.8	27.5	27.1	30.4	29.6	30.8	34.2	35.9	39.0	42.2	42.3	40.3	38.5	35.8	35.4	34.7	21.8	27.7	23.4	31.4	30.3	
31	31.1	35.3	32.7	29.8	31.6	31.6	29.9	29.8	29.8	31.6	32.7	35.7	39.1	40.9	40.9	40.4	31.5	31.4	34.0	29.6	32.1	27.0	30.4	31.6	32.9	
Mean	31.9	32.0	32.3	32.6	32.1	32.1	32.1	31.7	31.3	31.7	34.0	36.5	38.8	39.8	39.6	38.5	36.5	34.7	33.7	33.1	30.4	29.6	30.4	31.4	33.6	

112 ESKDALEMUIR

44,000γ (0.44 C.G.S. unit) +

MARCH 1943

	Hour G.M.T.																								Mean
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1066	1064	1063	1063	1063	1063	1061	1061	1062	1060	1057	1054	1052	1054	1062	1074	1080	1085	1082	1078	1074	1072	1072	1069	1066
2	1066	1063	1063	1062	1060	1061	1059	1062	1074	1069	1058	1062	1063	1073	1081	1079	1080	1076	1074	1072	1072	1072	1071	1070	1068
3	1072	1070	1068	1068	1067	1064	1063	1062	1063	1065	1064	1060	1060	1064	1069	1073	1074	1075	1075	1082	1089	1090	1078	1070	1070
4	1060	1055	1061	1060	1053	1051	1051	1055	1055	1053	1057	1063	1064	1069	1070	1076	1082	1087	1088	1086	1085	1060	1063	1070	1066
5	1056	1057	1058	1039	1036	1039	1046	1047	1048	1057	1059	1058	1061	1064	1070	1078	1091	1108	1094	1081	1078	1078	1073	1068	1064
6	1053	1054	1061	1064	1064	1063	1061	1061	1063	1067	1066	1064	1063	1066	1067	1074	1078	1075	1072	1072	1075	1075	1074	1070	1067
7	1064	1063	1066	1066	1064	1063	1062	1062	1062	1066	1061	1055	1060	1063	1068	1072	1073	1075	1076	1075	1080	1078	1073	1064	1067
8	1062	1059	1060	1046	1054	1061	1062	1062	1061	1060	1054	1055	1058	1065	1072	1079	1080	1080	1077	1071	1069	1072	1073	1072	1065
9	1068	1064	1057	1063	1064	1063	1062	1060	1055	1055	1051	1054	1058	1062	1066	1070	1078	1075	1072	1070	1073	1069	1060	1063	1064
10 q	1063	1061	1057	1061	1062	1062	1062	1062	1061	1059	1055	1054	1055	1057	1061	1066	1073	1074	1074	1075	1075	1070	1070	1063	1064
11	1062	1061	1054	1056	1058	1061	1059	1060	1060	1061	1057	1057	1058	1061	1061	1065	1067	1067	1072	1091	1091	1098	1091	1077	1067
12	1055	1044	1055	1042	1050	1055	1061	1061	1061	1055	1051	1050	1054	1061	1068	1091	1100	1087	1085	1087	1073	1079	1067	1060	1065
13 q	1061	1063	1060	1061	1063	1065	1064	1063	1062	1061	1056	1055	1055	1056	1061	1063	1066	1064	1063	1063	1064	1063	1064	1063	1062
14	1061	1062	1061	1048	1044	1051	1056	1057	1055	1055	1052	1052	1054	1057	1066	1076	1075	1069	1066	1066	1064	1066	1064	1063	1060
15 q	1063	1062	1063	1062	1062	1062	1063	1063	1063	1059	1053	1049	1051	1055	1062	1067	1069	1068	1064	1063	1062	1062	1062	1061	1061
16 d	1057	1051	1054	1057	1060	1058	1052	1050	1049	1057	1065	1063	1064	1069	1072	1076	1084	1081	1073	1079	1092	1074	1062	1040	1064
17	1028	1051	1058	1062	1063	1065	1067	1067	1068	1066	1064	1068	1067	1064	1067	1070	1075	1075	1072	1069	1069	1069	1063	1057	1064
18	1060	1061	1063	1063	1063	1063	1063	1062	1061	1058	1055	1055	1055	1059	1062	1063	1069	1074	1078	1071	1067	1067	1064	1063	1063
19	1062	1062	1062	1062	1062	1062	1061	1061	1055	1048	1046	1049	1050	1050	1056	1063	1073	1070	1070	1070	1069	1068	1063	1062	1061
20 d	1062	1061	1060	1055	1052	1054	1056	1055	1053	1051	1048	1049	1049	1056	1069	1085	1078	1086	1114	1087	1079	1074	1067	1063	1065
21	1061	1056	1056	1057	1061	1062	1062	1058	1057	1055	1054	1055	1057	1060	1064	1072	1078	1082	1080	1080	1073	1069	1069	1067	1064
22	1067	1064	1064	1063	1061	1061	1062	1066	1067	1060	1060	1055	1055	1057	1067	1079	1087	1084	1080	1081	1073	1043	994	1004	1061
23 d	960	933	966	990	997	1022	1039	1047	1055	1057	1060	1063	1073	1077	1075	1074	1078	1080	1083	1078	1068	1062	1058	1050	1044
24	1051	1056	1061	1062	1063	1062	1066	1061	1062	1063	1060	1057	1061	1067	1069	1073	1084	1090	1075	1070	1068	1067	1066	1066	1066
25 q	1067	1066	1067	1064	1063	1056	1057	1062	1062	1061	1056	1054	1056	1061	1064	1067	1067	1067	1068	1067	1065	1066	1067	1064	1063
26	1059	1056	1057	1061	1061	1061	1062	1061	1058	1055	1051	1045	1040	1048	1057	1066	1073	1075	1073	1069	1067	1066	1064	1055	1060
27	1054	1057	1061	1062	1062	1062	1063	1063	1061	1057	1052	1051	1051	1054	1059	1067	1070	1073	1075	1075	1076	1072	1067	1063	1063
28 q	1063	1063	1063	1063	1063	1064	1066	1067	1068	1065	1060	1053	1050	1051	1057	1062	1064	1067	1066	1064	1064	1070	1070	1062	1063
29 d	1060	1057	1051	1050	1051	1055	1057	1060	1062	1058	1049	1045	1043	1044	1055	1078	1085	1081	1072	1075	1082	1036	943	984	1051
30 d	1000	992	995	1016	1002	1013	1037	1052	1061	1063	1062	1061	1063	1070	1080	1084	1078	1075	1080	1082	1093	1079	1074	1069	1053
31	1068	1044	1036	1047	1049	1052	1061	1061	1063	1064	1064	1062	1062	1063	1075	1087	1109	1112	1108	1105	1096	1086	1061	1036	1070
Mean	1055	1053	1054	1055	1055	1057	1059	1060	1060	1059	1057	1056	1057	1061	1066	1073	1078	1079	1077	1076	1075	1070	1061	1058	1063

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

113 ESKDALEMUIR

MARCH 1943

	TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.				
	Horizontal force				Declination				Vertical force											
	Maximum 16,000γ +		Minimum 16,000γ +		Range	Maximum 12° +		Minimum 12° +		Range	Maximum 44,000γ +						Minimum 44,000γ +		Range	
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ							
1	7 16	543	489	15 27	54	16 40	42.2	32.2	9 59	10.0	17 59	1085	1050	12 9	35	0, 1, 0, 2, 3, 3, 2, 1	12	0	82.8	
2	6 54	547	444	9 5	103	9 35	41.5	31.1	2 31	10.4	14 36	1084	1056	6 56	28	1, 2, 4, 4, 2, 2, 2, 2	19	1	82.8	
3	7 42	537	480	21 36	57	12 41	42.3	20.7	21 45	21.6	20 22	1091	1057	12 12	34	1, 1, 2, 2, 3, 1, 3, 3	16	1	82.8	
4	21 13	607	467	11 10	140	12 31	40.5	14.5	20 57	26.0	17 42	1091	1049	5 15	42	2, 2, 3, 3, 3, 3, 4, 5	25	1	82.8	
5	3 48	536	482	7 47	54	13 59	41.3	25.1	17 37	16.2	17 16	1111	1031	3 57	80	3, 3, 3, 3, 2, 3, 3, 3	23	1	82.7	
6	0 5	536	505	11 31	31	12 55	40.6	23.4	20 18	17.2	16 45	1079	1049	0 41	30	2, 1, 2, 2, 2, 2, 3, 2	16	1	82.7	
7	18 34	543	490	12 14	53	13 20	40.7	27.8	18 30	12.9	20 52	1081	1055	11 32	26	1, 1, 1, 2, 2, 2, 3, 2	14	0	82.7	
8	0 50	534	497	2 29	37	13 41	40.8	26.0	21 59	14.8	17 9	1082	1040	3 35	42	3, 2, 2, 2, 2, 3, 2, 3	19	1	82.7	
9	21 32	569	502	1 48	67	14 43	40.1	28.6	1 2	11.5	16 49	1081	1049	10 38	32	3, 1, 2, 2, 2, 2, 2, 3	17	1	82.7	
10 q	1 56	540	502	12 50	38	14 50	39.4	25.0	23 9	14.4	20 7	1078	1052	11 20	26	2, 1, 2, 2, 1, 2, 1, 3	14	0	82.8	
11	18 17	573	471	19 21	102	18 43	45.8	22.0	21 55	23.8	21 53	1104	1051	2 41	53	3, 1, 1, 1, 2, 3, 5, 3	19	1	82.7	
12	20 3	589	474	15 38	115	3 2	44.0	21.7	19 43	22.3	16 3	1109	1038	3 27	71	4, 4, 2, 3, 3, 3, 4, 3	26	1	82.7	
13 q	23 10	541	490	11 17	51	13 49	41.1	30.5	8 53	10.6	16 30	1067	1054	12 35	13	2, 1, 1, 1, 2, 1, 1, 2	11	0	82.7	
14	4 51	541	492	11 43	49	14 2	41.1	29.8	8 29	11.3	15 24	1078	1042	4 40	36	2, 2, 2, 2, 2, 2, 1, 2	15	1	82.6	
15 q	23 0	541	490	11 3	51	13 23	39.3	29.1	6 39	10.2	16 54	1072	1049	12 0	23	1, 1, 0, 1, 1, 2, 1, 1	8	0	82.6	
16 d	23 41	578	408	10 31	170	10 56	45.1	10.1	20 31	35.0	20 29	1098	1010	24 0	88	2, 2, 3, 4, 3, 3, 4, 4	25	1	82.5	
17	22 26	551	460	11 57	91	12 40	40.5	26.8	0 32	13.7	17 2	1075	1009	0 3	66	3, 1, 1, 3, 3, 1, 1, 3	16	1	82.6	
18	23 12	539	490	11 30	49	12 49	40.8	28.0	17 57	12.8	18 20	1079	1054	11 16	25	1, 1, 2, 2, 1, 3, 2, 1	13	0	82.5	
19	20 51	567	492	10 56	75	13 11	41.3	17.4	21 49	23.9	18 52	1075	1043	10 41	32	1, 1, 2, 2, 2, 4, 3, 4	19	1	82.5	
20 d	18 40	550	467	15 19	83	13 49	45.0	-0.8	18 36	45.8	18 36	1125	1045	10 5	80	2, 2, 4, 3, 3, 4, 5, 2	25	1	82.5	
21	21 24	550	469	11 3	81	12 49	42.4	31.4	8 53	11.0	17 40	1084	1051	10 47	33	2, 1, 2, 3, 2, 3, 2, 2	17	0	82.4	
22	20 5	552	451	21 48	101	15 25	42.6	14.3	21 32	28.3	16 33	1090	973	22 13	117	2, 2, 1, 3, 3, 3, 4, 4	22	2	82.5	
23 d	20 11	555	431	2 28	124	14 49	39.6	17.9	2 7	21.7	18 10	1087	926	1 22	161	4, 4, 3, 3, 3, 3, 4, 2	26	1	82.5	
24	20 11	532	465	12 20	67	15 17	39.1	24.4	17 0	14.7	17 9	1094	1045	0 1	49	1, 1, 2, 2, 3, 3, 1, 1	14	1	82.5	
25 q	6 8	536	486	12 9	50	14 29	39.8	29.7	8 30	10.1	15 55	1069	1052	11 42	17	1, 2, 1, 1, 1, 1, 0, 0	7	0	82.5	
26	23 41	560	497	11 12	63	13 24	40.7	29.7	8 59	11.0	17 0	1076	1039	12 22	37	2, 1, 2, 1, 1, 2, 1, 2	12	0	82.5	
27	0 1	550	497	11 12	53	13 13	39.5	28.4	20 12	11.1	20 10	1079	1049	0 1	30	2, 0, 0, 1, 1, 2, 2, 2	10	0	82.5	
28 q	20 0	548	489	12 6	59	13 58	40.4	27.8	23 12	12.6	22 14	1074	1049	13 0	25	0, 0, 1, 2, 1, 1, 2, 2	9	0	82.5	
29 d	18 41	657	328	22 12	329	15 31	47.8	-8.8	21 52	56.6	20 7	1099	888	22 6	211	2, 2, 2, 2, 3, 4, 6, 6	27	2	82.6	
30 d	20 42	574	442	1 21	132	14 9	44.1	8.2	1 20	35.9	20 22	1100	967	0 3	133	4, 3, 3, 3, 3, 2, 4, 4	26	1	82.6	
31	22 51	571	477	1 18	94	13 41	42.1	24.5	21 37	17.6	17 15	1116	1028	23 13	88	3, 2, 2, 1, 2, 4, 3, 4	21	1	82.5	
Mean	-	-	556	472	-	-	41.7	22.5	-	19.2	-	-	1088	1031	-	57	2.2	17.5	0.71	82.6

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

114 ESKDALEMUIR (H)												16,000γ (0.16 C.G.S. unit) +												APRIL 1943											
	Hour G.M.T.																								Mean										
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24											
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ										
1	509	501	500	503	487	497	504	505	502	489	489	485	481	498	498	499	500	521	527	520	514	516	524	520	504										
2	530	524	516	517	527	527	497	512	506	505	494	493	489	495	497	514	520	528	524	524	522	540	520	540	515										
3 d	529	462	505	507	520	521	512	503	510	484	458	472	503	505	523	517	540	541	520	516	517	524	533	556	512										
4	533	498	515	513	523	528	520	505	504	493	490	482	510	520	501	539	524	533	529	545	524	525	528	522	517										
5	532	481	466	524	517	519	517	512	493	483	481	489	498	508	501	532	574	527	515	516	524	539	536	505	512										
6 d	510	516	517	514	524	533	534	533	516	460	466	463	454	494	512	502	501	512	523	529	524	524	527	543	510										
7	517	512	508	528	524	528	529	524	512	507	494	494	496	490	509	519	520	529	527	524	529	527	523	527	517										
8	532	527	519	522	525	523	525	515	507	506	492	487	495	503	515	520	528	528	524	524	524	527	527	529	518										
9 q	524	524	523	522	523	527	531	529	524	512	502	495	495	508	518	522	528	532	534	539	539	532	523	523	522										
10 d	524	523	522	521	519	526	528	506	495	481	457	462	468	488	500	502	511	523	531	536	501	500	523	519	507										
11 d	492	469	504	512	472	441	438	438	435	449	468	473	484	491	502	515	522	520	518	522	507	504	511	535	488										
12	519	514	513	515	516	520	523	520	515	497	488	482	481	490	503	515	522	530	531	529	525	525	525	523	513										
13 q	525	523	523	523	527	530	534	530	522	509	500	496	501	510	515	525	519	524	530	534	532	532	534	532	522										
14 q	528	527	528	530	532	535	538	538	531	515	500	493	496	504	515	527	531	532	536	539	538	539	540	538	526										
15	535	535	535	535	536	540	542	546	543	521	508	502	508	516	519	532	551	526	554	543	533	546	547	550	533										
16	532	534	535	534	544	541	531	527	527	508	497	492	488	492	504	520	543	536	539	531	534	536	537	537	525										
17	545	539	527	525	530	532	523	513	516	512	500	495	506	516	523	517	528	534	535	532	532	531	531	531	524										
18	538	530	531	525	514	523	520	515	512	504	501	501	506	520	530	538	538	541	538	539	536	536	536	532	525										
19	532	529	531	535	529	525	522	516	511	501	496	500	512	514	517	531	538	539	538	528	529	531	532	534	524										
20	532	531	531	531	531	534	532	531	525	513	508	496	493	522	539	554	525	534	541	541	543	532	530	539	529										
21	572	519	499	526	525	507	526	537	522	499	483	459	490	514	517	507	538	533	531	517	521	527	527	526	518										
22	525	526	526	527	531	524	526	524	502	491	490	492	496	505	515	522	524	529	532	530	532	531	532	526	519										
23 q	525	526	527	526	526	523	522	518	510	496	486	492	501	512	526	533	538	535	538	535	538	537	531	531	522										
24 q	530	531	533	531	530	530	526	522	515	498	487	487	501	515	530	533	535	537	537	539	538	538	540	541	525										
25	541	544	537	535	523	531	525	525	522	515	508	503	497	502	526	528	519	534	541	542	547	540	519	522	526										
26 d	495	488	461	495	530	476	483	487	467	465	478	492	501	503	515	514	523	533	533	533	534	524	506	498	501										
27	499	518	512	507	506	507	504	503	501	495	491	492	501	502	518	514	525	538	534	538	528	524	522	522	513										
28	521	522	518	512	514	514	514	508	506	502	495	494	499	507	521	528	534	544	548	554	567	524	528	522	521										
29	512	506	529	519	519	514	506	492	507	498	484	491	509	507	499	507	531	538	540	542	542	526	522	514	515										
30	526	530	522	514	532	519	514	522	520	492	464	499	506	498	512	522	526	542	545	539	548	527	529	526	520										
Mean	525	517	517	521	522	520	518	515	509	497	489	488	495	505	514	522	529	532	533	533	531	529	528	529	517										

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

115 ESKDALEMUIR (D)												12° +												APRIL 1943																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	Hour G.M.T.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

89

116 ESKDALEMUIR (V)		44,000γ (0.44 C.G.S. unit) +														APRIL 1943											
	Hour	G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1074	1079	1062	1047	1053	1055	1061	1069	1072	1076	1077	1082	1081	1084	1094	1103	1107	1106	1112	1105	1098	1098	1091	1079	1082	1082	1082
2	1069	1059	1065	1067	1062	1058	1064	1068	1071	1074	1073	1071	1070	1075	1092	1098	1093	1091	1088	1086	1087	1077	1080	1075	1076	1076	1076
3 d	1045	978	999	1026	1028	1035	1040	1055	1056	1067	1068	1068	1065	1074	1085	1095	1103	1115	1106	1091	1087	1086	1076	1047	1062	1062	1062
4	1049	1057	1050	1028	1035	1052	1062	1068	1074	1074	1070	1069	1068	1072	1094	1100	1100	1107	1128	1096	1087	1083	1082	1077	1074	1074	1074
5	1055	1047	1035	1046	1067	1073	1076	1080	1082	1082	1082	1079	1075	1082	1086	1084	1128	1139	1109	1101	1094	1083	1043	1046	1078	1078	1078
6 d	1056	1057	1052	1069	1076	1077	1080	1080	1081	1088	1083	1079	1081	1081	1094	1127	1113	1107	1098	1091	1092	1091	1067	1044	1082	1082	1082
7	1050	1059	1029	1032	1052	1067	1074	1075	1077	1077	1074	1070	1074	1085	1091	1098	1098	1092	1093	1098	1086	1085	1082	1080	1075	1075	1075
8	1066	1069	1073	1077	1080	1081	1084	1082	1081	1074	1070	1071	1070	1075	1082	1085	1088	1088	1086	1083	1082	1082	1082	1081	1079	1079	1079
9 q	1082	1082	1083	1082	1082	1082	1081	1081	1078	1074	1070	1065	1064	1066	1070	1075	1076	1080	1080	1079	1078	1080	1082	1083	1077	1077	1077
10 d	1081	1080	1081	1080	1079	1072	1060	1059	1065	1074	1077	1083	1097	1099	1097	1099	1104	1109	1109	1128	1094	1092	1076	1040	1085	1085	1085
11 d	1032	1025	970	973	949	956	995	1026	1047	1064	1082	1088	1089	1089	1092	1101	1121	1128	1119	1118	1125	1109	1089	1056	1060	1060	1060
12	1064	1079	1086	1088	1088	1086	1086	1086	1086	1088	1085	1079	1077	1079	1081	1087	1091	1089	1089	1089	1088	1089	1084	1083	1084	1084	1084
13 q	1082	1083	1083	1084	1083	1083	1083	1086	1086	1086	1085	1077	1074	1074	1081	1086	1089	1088	1087	1086	1085	1085	1085	1082	1083	1083	1083
14 q	1082	1082	1082	1082	1082	1081	1082	1081	1079	1080	1076	1075	1074	1075	1079	1080	1082	1082	1082	1085	1085	1085	1083	1082	1081	1081	1081
15	1082	1082	1081	1081	1079	1077	1076	1075	1074	1073	1070	1068	1068	1070	1077	1076	1085	1085	1086	1091	1093	1088	1086	1073	1079	1079	1079
16	1068	1076	1077	1075	1074	1074	1074	1068	1070	1074	1076	1074	1072	1076	1082	1089	1089	1089	1092	1092	1092	1086	1086	1080	1079	1079	1079
17	1073	1069	1071	1076	1077	1080	1082	1081	1076	1077	1075	1071	1070	1074	1082	1086	1086	1088	1088	1086	1085	1086	1082	1082	1079	1079	1079
18	1076	1075	1076	1075	1069	1071	1076	1080	1077	1074	1065	1061	1061	1067	1073	1076	1080	1080	1081	1080	1080	1080	1080	1080	1075	1075	1075
19	1080	1079	1076	1070	1070	1075	1076	1076	1075	1070	1066	1058	1056	1062	1069	1074	1075	1079	1080	1081	1080	1080	1080	1080	1074	1074	1074
20	1080	1080	1079	1077	1077	1076	1076	1077	1074	1071	1068	1065	1067	1063	1068	1077	1088	1089	1083	1080	1081	1083	1084	1077	1077	1077	1077
21	1053	1040	1019	1035	1050	1052	1049	1059	1068	1068	1067	1074	1070	1077	1097	1100	1094	1099	1094	1107	1094	1085	1082	1082	1071	1071	1071
22	1081	1081	1082	1082	1082	1083	1082	1080	1076	1076	1075	1076	1064	1068	1077	1083	1087	1088	1086	1083	1083	1083	1080	1080	1080	1080	1080
23 q	1081	1080	1081	1082	1082	1082	1082	1081	1075	1073	1069	1068	1069	1069	1073	1076	1077	1080	1080	1076	1076	1081	1081	1081	1077	1077	1077
24 q	1080	1081	1081	1081	1082	1082	1082	1081	1081	1075	1070	1063	1059	1065	1073	1075	1076	1080	1080	1076	1076	1079	1077	1076	1076	1076	1076
25	1075	1073	1067	1062	1069	1069	1068	1065	1067	1068	1065	1063	1059	1063	1071	1082	1091	1052	1091	1085	1082	1087	1082	1044	1073	1073	1073
26 d	1020	1014	967	949	971	972	1020	1034	1053	1062	1067	1079	1087	1091	1100	1106	1111	1122	1127	1124	1118	1087	1088	1088	1061	1061	1061
27	1081	1055	1057	1077	1085	1086	1087	1087	1086	1078	1073	1065	1066	1071	1082	1089	1086	1086	1087	1088	1086	1086	1086	1086	1080	1080	1080
28	1083	1082	1081	1082	1083	1081	1079	1076	1075	1069	1069	1069	1070	1074	1075	1079	1077	1075	1075	1075	1076	1095	1093	1082	1078	1078	1078
29	1075	1073	1065	1073	1076	1079	1078	1075	1069	1067	1062	1059	1064	1071	1080	1083	1087	1094	1098	1099	1095	1092	1092	1089	1079	1079	1079
30	1080	1076	1076	1062	1062	1068	1069	1059	1056	1058	1064	1058	1062	1070	1075	1080	1084	1086	1091	1093	1091	1087	1082	1074	1073	1073	1073
Mean	1069	1065	1059	1061	1063	1065	1069	1072	1073	1074	1072	1071	1071	1075	1082	1088	1092	1094	1093	1092	1089	1086	1081	1074	1076	1076	1076

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

117 ESKDALEMUIR												APRIL 1943							
TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.				
Horizontal force						Declination			Vertical force										
Maximum 16,000γ +		Minimum 16,000γ +		Range	Maximum 12° +		Minimum 12° +		Range	Maximum 44,000γ +							Minimum 44,000γ +		Range
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ					
1	18 30	560	474	12 3	86	13 31	42.2	23.2	18 21	19.0	18 18	1117	1039	3 5	78	3, 2, 2, 2, 2, 3, 3, 2	19	1	82.5
2	0 58	567	471	14 24	96	13 52	42.3	25.5	5 12	16.8	15 9	1101	1056	1 31	45	3, 2, 3, 2, 3, 2, 2, 3	20	1	82.5
3 d	23 23	579	403	1 43	176	12 51	44.1	13.9	3 23	30.2	17 35	1122	953	1 49	169	5, 4, 4, 3, 3, 4, 3, 4	30	2	82.5
4	19 1	682	466	14 32	216	13 56	43.6	17.6	18 55	26.0	18 53	1142	1020	3 48	122	4, 3, 2, 2, 4, 3, 6, 3	27	1	82.5
5	16 38	633	434	2 31	199	14 13	43.3	16.0	16 51	27.3	16 48	1165	1027	2 48	138	5, 2, 2, 3, 3, 5, 3, 5	28	1	82.5
6 d	23 30	560	419	12 11	141	12 10	45.2	25.3	8 42	19.9	15 36	1134	1038	23 52	96	4, 2, 3, 3, 4, 3, 2, 4	25	1	82.5
7	20 1	560	470	13 58	90	2 35	46.9	18.9	19 42	28.0	19 42	1100	1010	2 53	90	5, 3, 2, 2, 3, 2, 3, 3	23	1	82.5
8	0 1	541	483	11 40	58	14 15	38.6	26.3	9 39	12.3	17 41	1091	1063	0 49	28	2, 2, 2, 2, 2, 2, 1, 1	14	0	82.4
9 q	20 4	543	492	11 44	51	14 13	37.5	26.9	8 38	10.6	22 52	1085	1062	12 29	23	1, 1, 1, 1, 2, 2, 2, 2	12	0	82.4
10 d	19 46	582	437	12 52	145	13 38	41.7	11.8	19 40	29.9	19 38	1140	1036	24 0	104	2, 3, 3, 3, 3, 3, 5, 4	26	1	82.4
11 d	23 13	577	420	7 29	157	6 13	48.8	12.8	0 21	36.0	17 52	1130	938	4 43	192	5, 5, 4, 3, 2, 3, 3, 4	29	2	82.4
12	18 1	535	477	12 40	58	13 22	39.5	27.7	0 2	11.8	20 50	1092	1053	0 1	39	3, 1, 0, 1, 2, 2, 2, 1	12	0	82.4
13 q	22 53	541	495	11 23	46	13 27	38.5	28.7	9 43	9.8	16 0	1090	1069	13 3	21	0, 1, 1, 1, 1, 2, 1, 2	9	0	82.4
14 q	19 41	546	492	11 52	54	13 45	39.4	27.9	7 52	11.5	20 2	1086	1071	12 57	15	1, 0, 1, 2, 1, 2, 1, 1	9	0	82.5
15	16 10	578	492	11 22	86	13 48	41.4	26.8	7 51	14.6	20 13	1095	1064	12 19	31	0, 1, 2, 2, 2, 4, 3, 3	17	1	82.5
16	18 59	562	468	11 52	94	13 43	41.6	25.4	0 12	16.2	19 56	1094	1062	0 1	32	3, 2, 3, 3, 3, 3, 3, 2	22	1	82.5
17	0 32	557	482	11 46	75	14 34	39.6	27.8	6 5	11.8	18 23	1091	1068	1 0	23	3, 1, 2, 2, 2, 3, 2, 1	16	1	82.5
18	15 55	547	492	10 58	55	13 17	39.6	27.1	8 5	12.5	18 52	1082	1058	12 8	24	1, 2, 2, 2, 1, 2, 1, 1	12	0	82.5
19	3 25	543	492	11 0	51	13 9	40.4	27.1	8 27	13.3	19 10	1082	1056	12 19	26	2, 2, 0, 2, 2, 1, 2, 1	12	0	82.5
20	5 28	570	473	12 7	97	13 34	40.8	26.5	22 6	14.3	17 3	1092	1062	13 34	30	0, 1, 1, 3, 3, 4, 1, 2	15	1	82.5
21	0 8	620	440	11 17	180	13 17	46.8	20.8	19 29	26.0	19 23	1113	1013	2 18	100	5, 3, 3, 3, 3, 3, 4, 1	25	1	82.5
22	22 2	553	476	9 47	77	14 27	38.0	27.2	8 57	10.8	17 44	1089	1062	12 40	27	1, 1, 3, 2, 2, 2, 1, 2	14	0	82.5
23 q	16 20	542	483	11 7	59	13 42	39.5	27.1	8 38	12.4	6 50	1082	1068	12 30	14	1, 1, 0, 1, 2, 2, 1, 1	9	0	82.5
24 q	23 21	545	480	11 6	65	13 13	38.7	28.9	8 19	9.8	5 18	1083	1058	12 36	25	1, 1, 0, 1, 2, 1, 1, 1	8	0	82.6
25	20 56	565	487	12 52	78	13 43	41.3	18.1	23 53	23.2	17 18	1093	1032	23 28	61	2, 2, 2, 2, 3, 3, 3, 4	21	1	82.5
26 d	20 58	576	413	2 30	163	12 10	40.6	12.4	1 55	28.2	17 55	1128	926	2 55	202	4, 5, 4, 3, 2, 3, 3, 4	28	1	82.5
27	19 26	546	490	10 40	56	1 20	40.0	26.0	0 50	14.0	15 20	1092	1040	1 49	52	4, 1, 2, 2, 2, 2, 2, 0	15	1	82.5
28	20 21	573	491	11 11	82	12 43	37.7	24.0	23 53	13.7	21 52	1099	1068	11 42	31	1, 1, 1, 1, 1, 2, 3, 3	13	0	82.6
29	20 5	554	478	10 55	76	14 0	38.9	23.4	0 19	15.5	19 50	1100	1058	11 32	42	3, 2, 3, 2, 3, 3, 2, 2	20	1	82.5
30	20 27	565	440	10 0	125	13 11	43.4	23.4	4 2	20.0	20 13	1095	1055	3 52	40	2, 3, 3, 4, 3, 3, 3, 3	24	1	82.5
Mean	- -	567	467	- -	100	- -	41.3	23.1	- -	18.2	- -	1103	1039	- -	64	2.3	18.5	0.70	82.5

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

118 ESKDALEMUIR (H)												16,000γ (0.16 C.G.S. unit) +												MAY 1943	
	Hour G.M.T.																								
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12													
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1 d	534	523	491	530	502	453	417	441	467	427	452	483	482	511	530	526	536	559	557	526	514	482	503	498	498
2	504	515	505	499	483	492	489	492	475	444	471	481	480	486	491	509	538	545	531	535	528	522	517	525	502
3	512	512	514	512	511	510	503	494	490	487	489	494	496	502	507	525	531	552	536	538	532	526	538	547	515
4	519	530	530	528	519	503	511	507	506	488	483	486	491	500	511	521	534	534	542	543	545	528	540	522	518
5	526	522	526	525	523	522	512	502	492	508	499	507	483	512	511	511	533	533	538	540	537	535	533	534	519
6	540	526	519	525	525	525	522	513	504	494	487	492	494	502	517	511	522	528	540	545	541	538	535	534	520
7 q	531	530	522	523	530	527	521	508	502	496	492	491	500	511	514	521	523	530	535	539	537	536	535	541	521
8 q	536	534	536	530	530	531	527	522	514	506	504	505	512	518	528	529	537	544	545	542	539	538	534	534	528
9 q	533	531	531	529	530	524	519	509	505	502	502	505	507	515	517	526	525	541	545	542	538	538	538	538	525
10	540	538	535	530	530	531	531	526	521	517	510	508	511	509	526	526	538	561	569	557	554	551	549	543	534
11	545	536	535	536	537	537	534	526	523	507	499	502	504	514	526	543	557	558	561	557	562	554	551	553	536
12	545	545	551	535	538	530	531	506	496	503	492	486	491	503	526	527	537	541	545	545	541	540	544	545	527
13	540	545	545	545	554	550	538	514	514	508	503	481	483	497	510	522	523	568	545	547	541	535	533	524	528
14	526	526	515	519	516	519	514	510	507	483	491	484	502	506	515	519	523	545	545	545	540	542	534	545	520
15 d	499	532	487	456	486	492	491	483	475	484	477	452	475	497	504	507	526	538	540	541	537	541	534	530	503
16	525	526	526	528	530	530	522	514	510	493	484	491	483	519	522	538	537	548	545	540	534	530	531	532	522
17	530	531	525	536	530	532	531	522	517	498	487	476	487	500	507	531	515	526	548	563	604	561	514	531	525
18 d	530	513	457	500	502	526	487	502	483	484	460	461	491	502	507	540	522	529	552	534	535	555	545	515	510
19	527	538	541	529	502	507	522	483	491	487	481	487	484	495	507	531	519	531	544	545	550	526	522	519	515
20	527	518	526	522	519	515	508	507	501	494	491	492	507	516	522	522	526	530	533	540	535	534	535	530	519
21 q	525	520	517	519	520	521	516	510	502	488	478	487	500	512	522	529	533	533	538	545	541	537	534	533	519
22 q	532	530	529	527	521	521	517	510	506	500	495	499	510	513	525	530	536	542	544	539	536	535	537	537	524
23	541	538	534	534	530	515	515	518	513	507	502	497	509	525	517	534	529	541	556	540	549	529	526	527	526
24 d	533	530	513	517	524	515	509	501	494	495	500	507	505	529	529	543	559	557	566	549	525	530	514	503	523
25	501	495	502	511	506	510	511	475	490	497	493	498	516	514	490	528	529	536	552	555	536	524	518	521	513
26	513	517	518	508	514	509	506	506	506	501	501	501	505	518	516	525	537	537	549	544	549	537	533	533	520
27	546	537	525	511	516	516	511	504	496	494	493	498	516	520	521	527	532	544	554	556	544	555	548	529	525
28 d	526	506	502	532	490	486	500	501	490	474	471	491	500	515	512	513	538	552	571	540	541	533	534	513	514
29	542	525	525	493	514	518	506	497	494	497	495	494	497	498	510	513	529	539	543	537	541	537	530	530	517
30	530	525	521	524	529	517	501	494	506	504	498	498	509	526	517	521	525	541	545	541	537	536	542	528	521
31	529	529	529	529	527	520	515	506	502	502	497	498	506	518	534	525	534	543	542	554	552	548	552	552	527
Mean	529	527	520	521	519	516	511	503	500	493	490	491	498	510	516	525	532	542	547	544	542	536	533	531	520

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

119 ESKDALEMUIR (D)												12° +												MAY 1943										
	Hour G.M.T.																																	
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean									
1 d	27.6	24.2	29.1	31.6	32.0	39.6	40.1	33.2	31.2	36.5	36.7	36.7	40.3	42.9	39.4	40.8	39.4	35.5	31.8	29.3	27.4	31.2	25.5	27.3	33.7									
2	33.1	27.4	26.0	24.7	26.2	28.8	27.7	28.4	28.5	28.1	32.4	33.5	36.5	40.4	41.5	35.3	32.1	33.9	30.5	30.3	30.4	30.6	28.9	31.1	31.1									
3	36.5	33.3	31.4	30.4	30.4	29.6	28.3	26.7	26.4	28.4	31.6	35.3	38.1	39.6	39.6	38.4	35.6	35.2	34.7	34.1	32.0	30.1	25.9	21.9	32.2									
4	26.9	29.5	30.6	30.6	29.9	31.0	30.5	27.7	29.6	32.1	34.4	35.8	36.3	37.4	36.9	36.1	35.6	35.7	35.7	34.1	33.0	29.8	27.7	30.8	32.4									
5	30.5	31.1	30.2	30.9	30.6	29.6	27.7	28.5	27.7	30.5	32.2	36.4	38.5	40.2	38.9	37.2	35.7	34.9	34.1	33.0	32.4	30.0	29.5	31.5	32.6									
6	35.3	32.0	30.7	29.8	29.0	27.9	27.7	27.0	27.4	29.3	32.4	35.9	38.3	37.7	37.6	36.7	35.7	34.0	33.8	33.2	32.7	32.3	32.0	31.5	32.5									
7 q	30.6	31.1	32.3	34.7	30.5	27.8	26.8	27.5	27.4	30.2	33.2	35.8	38.6	38.4	36.7	35.1	33.5	32.9	32.7	32.2	32.2	32.2	32.1	31.2	32.3									
8 q	29.6	29.7	30.4	29.7	29.6	29.5	29.1	28.6	29.5	32.2	34.8	36.3	37.9	36.9	35.3	34.4	33.9	33.4	33.2	33.5	32.5	32.3	32.2	31.9	32.3									
9 q	31.3	30.8	30.6	30.4	29.9	27.8	26.9	27.3	28.8	31.5	33.0	35.8	37.7	38.5	36.7	34.8	33.2	32.6	32.2	32.1	32.2	32.4	32.1	32.3	32.1									
10	32.2	31.4	30.2	29.4	28.3	27.5	26.3	26.2	27.0	29.4	32.4	36.3	37.6	37.0	37.6	37.0	35.9	34.9	35.3	35.1	34.2	33.8	33.3	32.3	32.5									
11	32.0	30.4	30.2	29.5	28.7	26.6	25.9	26.3	28.5	30.5	33.7	36.5	38.1	38.7	38.4	38.0	37.7	35.3	34.2	34.1	33.9	29.4	28.6	31.0	32.3									
12	31.2	32.0	32.1	37.9	35.1	27.5	26.5	28.3	29.5	30.1	33.2	36.8	38.4	37.9	36.8	35.7	34.9	33.2	32.7	32.6	31.2	32.6	32.3	31.9	32.9									
13	31.0	31.3	30.5	29.3	28.7	27.9	27.0	29.3	29.2	31.3	32.2	33.9	36.8	37.5	38.5	37.8	36.7	30.1	32.2	33.2	31.7	27.6	30.3	31.3	31.9									
14	31.3	31.9	36.6	33.9	29.2	27.6	26.1	26.7	29.6	32.2	34.8		35.3	35.8	35.6	35.5	34.9	33.3	33.1	32.7	32.7	31.6	28.5	26.6	31.7									
15 d	31.7	27.4	25.1	35.5	39.3	35.5	31.6	32.8	33.3	32.5	33.5	34.6	36.9	36.7	36.7	35.0	32.3	32.1	32.2	32.3	29.6	30.3	29.0	29.6	32.7									
16	30.3	30.7	30.5	29.9	28.7	27.7	27.1	25.7	25.9	29.6	33.8	36.8	39.6	39.4	37.1	36.6	34.9	33.8	29.8	31.5	26.5	31.4	32.4	30.6	31.7									
17	32.9	36.0	32.2	30.1	28.5	26.3	31.1	30.2	27.7	30.6	32.2	36.6	38.6	38.6	38.5	38.3	35.9	31.7	31.6	33.0	27.3	35.8	30.2	34.8	32.9									
18 d	37.5	35.3	31.3	26.0	35.3	38.9	36.6	27.0	24.0	27.9	30.3	33.2	35.7	36.8	36.6	33.5	34.1	33.7	31.9	30.1	31.0	31.6	31.8	29.2	32.5									
19	30.0	32.0	32.1	30.7	41.6	37.1	30.4	29.7	28.6	28.5	31.4	34.5	37.1	37.2	37.1	37.5	36.4	35.3	34.1	32.5	37.7	25.3	29.8	30.4	33.2									
20	30.7	32.4	31.4	30.8	29.8	28.8	27.7	27.4	27.0	28.6	30.6	34.1	34.9	35.8	36.1	35.7	34.1	33.1	31.8	31.3	32.0	32.1	32.5	32.9	31.7									
21 q	29.4	31.4	31.2	30.6	29.1	28.1	28.8	27.8	27.6	29.3	32.0	34.0	35.8	36.1	36.5	36.0	35.7	33.1	32.0	31.2	32.2	32.2	32.2	32.1	31.9									
22 q	31.4	31.2	30.7	29.6	28.6	27.7	25.8	25.9	25.4	27.5	32.0	34.9	37.2	36.6	35.6	34.9	33.5	32.2	32.3	32.2	32.3	32.2	31.5	31.4	31.4									
23	31.3	31.2	30.5	30.0	29.0	28.9	28.1	27.7	27.2	30.4	32.5	36.4	37.4	38.7	37.9	37.8	36.7	36.1	34.8	34.3	32.2	28.0	27.7	27.5	32.2									
24 d	27.2	22.5	25.9	23.2	26.3	23.7	24.5	24.2	26.3	28.5	31.9	34.5	35.7	37.7	39.0	39.2	38.1	38.6	36.8	33.1	32.2	29.4	24.9	28.7	30.5									
25	25.1	29.6	30.9	25.0	24.8	27.6	25.1	28.5	32.9	31.3	32.2	34.2	36.7	38.9	37.6	38.6	37.7	35.9	31.9	32.4	32.4	27.5	28.5	28.0	31.4									
26	30.6	30.5	30.6	29.1	27.3	26.5	26.8	27.6	28.0	29.5	30.5	33.5	35.8	37.3	36.1	36.0	36.8	35.4	34.2	33.9	33.8	30.9	27.7	25.2	31.4									
27	30.3	26.5	23.3	23.2	26.5	27.6	28.7	29.6	29.5	30.6	32.6	34.4	36.4	36.9	36.9	37.3	37.8	36.8	36.2	32.4	32.0	29.5	28.5	26.1	31.3									
28 d	25.0	27.7	38.3	29.7	28.0	31.3	32.5	30.5	28.7	30.8	32.2	34.6	36.7	37.2	38.3	36.6	35.4	34.9	32.3	32.6	31.5	32.3	34.6	28.5	32.5									
29	25.6	27.3	27.7	29.1	32.3	28.8	27.7	27.7	27.0	28.1	29.9	32.2	34.7	35.8	35.5	35.0	34.8	33.8	33.0	30.4	30.4	30.4	31.3	31.7	30.8									
30	31.3	31.3	34.3	31.4	28.6	26.8	26.8	28.5	27.8	28.1	29.4	31.3	34.0	35.9	35.9	35.8	34.5	32.7	32.0	31.8	31.6	31.3	29.3	30.5	31.3									
31	29.9	29.9	30.3	29.6	29.5	28.3	26.2	25.9	26.0	26.8	29.2	32.5	35.8	37.0	37.7	37.6	35.1	34.7	33.9	33.2	33.1	32.2	30.5	29.0	31.4									
Mean	30.6	30.3	30.5	29.9	30.0	29.3	28.5	28.0	28.1	29.9	32.3	34.9	37.0	37.8	37.4	36.6	35.4	34.1	33.1	32.5	31.8	30.9	30.0	30.0	32.0									

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

91

120 ESKDALEMUIR (V)

44,000γ (0.44 C.G.S. unit) +

MAY 1943

	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1 d	1063	1065	1061	1008	1003	1003	1002	1021	1040	1063	1071	1097	1090	1103	1132	1139	1140	1137	1133	1127	1110	1074	1032	992	977	1071
2	984	1033	1044	1046	1057	1068	1071	1076	1073	1078	1075	1074	1076	1085	1093	1118	1119	1111	1110	1109	1100	1092	1088	1080	1077	1077
3	1062	1068	1081	1086	1087	1087	1087	1087	1086	1076	1070	1067	1067	1075	1085	1094	1110	1114	1112	1104	1105	1101	1081	1061	1086	1086
4	1069	1076	1081	1082	1077	1075	1075	1077	1075	1070	1069	1069	1072	1076	1081	1085	1088	1085	1088	1085	1088	1095	1087	1082	1079	1079
5	1082	1083	1083	1085	1083	1083	1086	1085	1082	1075	1069	1068	1076	1085	1092	1093	1093	1094	1094	1089	1087	1088	1087	1085	1084	1084
6	1074	1067	1076	1081	1084	1086	1086	1083	1084	1076	1074	1070	1072	1076	1082	1088	1092	1088	1088	1087	1084	1083	1082	1082	1081	1081
7 q	1081	1081	1082	1074	1074	1076	1081	1081	1081	1077	1068	1063	1066	1073	1079	1081	1083	1083	1082	1082	1081	1081	1081	1076	1078	1078
8 q	1074	1074	1074	1077	1081	1081	1081	1081	1080	1069	1056	1050	1056	1066	1073	1079	1080	1081	1081	1081	1081	1081	1080	1081	1075	1075
9 q	1080	1080	1080	1081	1083	1083	1082	1081	1078	1072	1065	1060	1062	1067	1068	1075	1081	1081	1084	1086	1083	1082	1081	1080	1077	1077
10	1080	1080	1081	1082	1084	1085	1082	1076	1073	1064	1061	1056	1056	1063	1070	1075	1080	1083	1085	1088	1084	1081	1081	1081	1076	1076
11	1078	1080	1081	1081	1082	1082	1078	1077	1075	1067	1062	1062	1067	1071	1073	1075	1080	1085	1086	1081	1079	1080	1075	1074	1076	1076
12	1074	1071	1073	1066	1053	1064	1071	1076	1078	1072	1067	1058	1057	1066	1075	1080	1081	1085	1087	1086	1086	1081	1080	1080	1074	1074
13	1080	1077	1076	1077	1077	1076	1080	1076	1076	1077	1074	1075	1075	1076	1089	1094	1112	1118	1116	1105	1100	1088	1079	1081	1086	1086
14	1081	1081	1073	1055	1066	1076	1083	1086	1083	1076	1076	1074	1075	1080	1082	1087	1087	1087	1087	1087	1086	1086	1086	1070	1080	1080
15 d	1050	992	969	961	980	1010	1045	1055	1063	1068	1063	1066	1070	1080	1091	1096	1095	1095	1094	1093	1094	1082	1080	1077	1057	1057
16	1081	1082	1082	1082	1082	1082	1081	1079	1076	1072	1068	1068	1075	1082	1086	1092	1095	1104	1113	1114	1110	1092	1089	1082	1086	1086
17	1078	1068	1063	1070	1077	1083	1078	1074	1076	1076	1077	1076	1075	1081	1087	1091	1103	1115	1111	1101	1094	1058	1070	1045	1080	1080
18 d	1017	1027	1006	1003	1015	997	1025	1053	1068	1075	1076	1087	1094	1094	1098	1101	1102	1094	1098	1102	1097	1081	1049	1068	1064	1064
19	1075	1068	1044	1056	1032	1025	1048	1061	1062	1063	1064	1064	1072	1087	1094	1094	1099	1093	1090	1092	1092	1086	1082	1081	1072	1072
20	1078	1076	1077	1082	1083	1086	1087	1085	1083	1075	1073	1075	1079	1081	1083	1087	1089	1091	1091	1091	1088	1086	1085	1081	1083	1083
21 q	1075	1074	1077	1083	1085	1086	1086	1087	1084	1075	1073	1073	1073	1075	1079	1081	1085	1087	1087	1087	1084	1082	1081	1080	1081	1081
22 q	1080	1081	1081	1085	1086	1086	1085	1080	1078	1071	1067	1067	1068	1074	1079	1084	1087	1090	1086	1085	1085	1085	1082	1081	1081	1081
23	1080	1080	1080	1081	1082	1084	1076	1073	1068	1062	1052	1058	1067	1074	1080	1080	1087	1086	1088	1091	1089	1091	1087	1079	1078	1078
24 d	1065	1037	960	1012	1051	1072	1076	1075	1075	1071	1066	1058	1059	1069	1085	1100	1124	1129	1133	1126	1110	1100	1079	1042	1074	1074
25	1048	1051	1031	1052	1068	1068	1071	1075	1071	1076	1079	1080	1084	1099	1103	1099	1111	1111	1115	1111	1103	1095	1087	1081	1082	1082
26	1072	1067	1066	1074	1082	1085	1084	1081	1081	1075	1073	1068	1068	1074	1079	1084	1091	1104	1104	1101	1092	1090	1085	1072	1081	1081
27	1059	1050	1057	1067	1063	1063	1062	1061	1064	1067	1067	1067	1067	1072	1079	1081	1080	1081	1085	1092	1093	1081	1049	1044	1069	1069
28 d	1048	1047	1013	1013	1037	1043	1052	1065	1074	1080	1081	1080	1084	1091	1099	1114	1105	1103	1098	1097	1096	1091	1067	1052	1072	1072
29	1053	1062	1067	1063	1048	1061	1069	1074	1074	1074	1070	1069	1073	1079	1086	1089	1087	1087	1090	1094	1090	1088	1086	1084	1076	1076
30	1081	1081	1071	1069	1074	1077	1076	1076	1075	1075	1069	1069	1069	1073	1079	1082	1086	1087	1088	1088	1087	1086	1081	1080	1078	1078
31	1080	1081	1081	1082	1084	1086	1087	1087	1083	1075	1070	1068	1066	1067	1073	1075	1079	1081	1085	1085	1085	1085	1082	1079	1079	1079
Mean	1067	1066	1060	1062	1065	1068	1072	1074	1075	1072	1069	1069	1071	1078	1085	1090	1095	1096	1096	1095	1092	1085	1078	1071	1077	1077

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

121 ESKDALEMUIR

MAY 1943

	TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +				
	Horizontal force			Declination			Vertical force													
	Maximum 16,000γ +	Minimum 16,000γ +	Range	Maximum 12° +	Minimum 12° +	Range	Maximum 44,000γ +	Minimum 44,000γ +	Range											
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ				°A.				
1 d	17 41	604	374	6 30	230	6 45	50.2	18.8	19 47	31.4	18 39	1147	967	24 0	180	4,5,5,5,3,4,4,5	35	2	82.5	
2	16 10	570	421	9 5	149	0 1	43.8	23.4	3 19	20.4	15 53	1129	951	0 8	178	4,3,2,4,3,4,2,2	24	1	82.5	
3	17 14	586	483	9 24	103	14 25	40.3	15.9	23 2	24.4	16 53	1122	1056	0 50	66	2,1,1,2,2,4,2,4	18	1	82.6	
4	22 8	565	479	10 5	86	13 19	37.7	25.9	22 29	11.8	21 40	1099	1063	0 1	36	2,2,2,1,2,3,2,3	17	0	82.6	
5	17 3	554	467	12 11	87	13 36	41.1	26.7	6 47	14.4	18 25	1097	1065	11 31	32	1,2,2,3,3,3,2,2	18	1	82.6	
6	0 41	554	480	10 57	74	12 20	38.7	26.7	8 0	12.0	16 39	1093	1062	1 9	31	3,1,0,2,2,2,1,1	12	0	82.6	
7 q	23 7	552	483	11 49	69	12 15	39.5	25.8	6 9	13.7	17 21	1085	1062	11 24	23	2,2,1,2,2,1,1,2	13	0	82.6	
8 q	17 31	551	501	11 47	50	12 41	38.6	28.5	7 15	10.1	18 0	1082	1050	11 30	32	2,2,0,1,2,2,1,0	10	0	82.6	
9 q	17 48	557	499	9 27	58	13 30	38.7	26.7	6 30	12.0	18 40	1086	1058	11 55	28	0,0,0,1,1,2,1,1	6	0	82.5	
10	18 20	586	499	10 52	87	15 2	38.5	25.8	6 40	12.7	18 59	1090	1056	11 48	34	1,0,1,1,2,3,3,1	12	0	82.5	
11	16 16	599	495	10 17	104	13 52	39.4	24.9	6 47	14.5	18 0	1088	1058	10 45	30	1,1,2,1,2,4,2,2	15	1	82.5	
12	19 15	558	479	11 31	79	12 57	38.6	24.7	5 54	13.9	18 31	1088	1050	4 10	38	2,3,2,2,2,2,2,2	17	1	82.5	
13	17 30	583	465	11 22	118	15 36	40.0	23.1	21 38	16.9	16 55	1123	1073	11 0	50	2,2,3,3,4,4,2,3	23	1	82.5	
14	23 20	561	460	11 23	101	12 54	36.6	25.0	6 20	11.6	15 50	1088	1052	3 12	36	3,3,2,3,1,3,2,3	20	1	82.7	
15 d	21 2	555	429	2 59	126	11 58	37.8	20.7	2 10	17.1	15 25	1100	948	3 8	152	5,4,3,3,3,3,2,2	25	1	82.8	
16	17 23	592	467	13 0	125	12 56	43.1	20.4	20 9	22.7	20 10	1118	1063	11 39	55	1,0,1,3,3,4,4,2	18	1	82.8	
17	20 42	689	467	10 30	222	23 31	41.9	17.9	21 23	24.0	17 49	1118	1026	23 51	92	2,2,2,3,3,4,5,4	25	1	82.7	
18 d	21 51	577	421	2 42	156	13 17	37.6	20.7	8 40	16.9	19 18	1106	979	3 4	127	5,4,4,4,4,4,3,4	32	1	82.8	
19	20 20	576	464	7 41	112	4 35	45.6	23.2	20 47	22.4	16 21	1102	1014	4 51	88	3,4,3,2,3,3,3,2	23	1	82.7	
20	19 50	549	487	11 58	62	14 56	36.7	26.8	8 10	9.9	18 57	1096	1071	10 22	25	2,1,2,1,2,2,2,1	13	0	82.7	
21 q	19 25	549	474	10 27	75	13 38	36.8	26.9	8 15	9.9	17 49	1088	1070	12 28	18	2,0,1,1,2,2,2,0	10	0	82.7	
22 q	18 38	548	493	10 39	55	12 54	37.8	25.0	8 30	12.8	17 32	1092	1064	11 20	28	0,1,1,1,1,1,1,1	7	0	82.7	
23	20 32	564	482	11 47	82	13 59	39.5	25.9	6 39	13.6	19 30	1093	1051	10 30	42	1,2,2,2,3,3,3,3	19	1	82.8	
24 d	17 42	591	435	2 8	156	17 43	41.5	17.7	1 36	23.8	18 32	1135	939	2 18	196	5,4,2,2,3,3,4,4	27	1	82.9	
25	18 37	576	455	7 48	121	13 5	40.3	23.2	4 5	17.1	16 52	1117	1026	2 25	91	3,3,3,2,4,3,3,2	23	1	82.9	
26	18 29	565	493	9 50	72	13 49	37.9	21.0	23 52	16.9	18 3	1109	1063	2 25	46	2,2,2,1,2,3,3,2	17	0	83.0	
27	21 58	599	486	10 48	113	15 55	39.3	19.6	24 0	19.7	20 55	1096	1039	23 48	57	3,3,2,2,3,3,3,4	22	1	83.0	
28 d	18 7	600	454	9 42	146	2 46	42.7	19.6	0 1	23.1	15 40	1117	996	2 51	121	4,4,3,3,3,4,4,3	28	1	82.9	
29	0 25	557	470	3 41	87	13 18	36.7	22.0	0 1	14.7	19 18	1097	1043	4 23	54	3,3,2,3,2,2,3,2	20	1	83.0	
30	18 51	558	478	7 6	80	13 55	37.0	25.8	6 44	11.2	19 18	1091	1066	2 59	25	2,2,3,2,3,2,2,3	19	1	82.9	
31	22 27	561	490	10 35	71	14 58	39.1	25.1	6 41	14.0	6 59	1088	1063	12 31	25	1,1,1,1,1,2,2,2	11	0	82.9	
Mean	-	-	574	469	-	-	39.8	23.3	-	-	16.4	-	-	1103	1037	-	2.4	18.7	0.68	82.7

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

122 ESKDALEMUIR (H)												16,000γ (0.16 C.G.S. unit) +												JUNE 1943												
	Hour G.M.T.																																			
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ											
1	548	546	543	541	538	537	525	517	506	498	506	522	527	541	543	547	545	545	555	568	554	540	536	529	536											
2	532	534	533	533	533	529	521	512	506	498	488	497	505	529	547	544	539	544	548	548	543	541	540	538	528											
3	537	532	532	533	530	525	513	506	498	505	503	502	507	513	532	534	541	547	546	546	544	542	541	537	527											
4 q	540	532	534	531	529	536	533	529	529	521	511	501	497	509	529	536	541	544	546	545	544	541	538	537	531											
5	536	539	537	537	538	540	540	535	527	511	502	498	506	521	532	550	555	557	569	571	562	566	564	570	540											
6	569	537	532	541	546	538	534	521	506	514	511	510	510	522	527	531	550	551	553	553	544	544	541	537	534											
7	537	532	531	530	537	537	532	526	519	504	502	498	477	509	532	545	537	567	552	546	544	545	557	549	531											
8 d	548	537	526	551	537	534	525	525	506	505	497	494	503	533	537	515	551	577	556	539	537	540	520	525	530											
9 d	514	531	529	513	494	524	525	514	498	448	468	493	510	497	490	537	520	529	541	553	544	541	534	532	516											
10	530	525	527	523	514	532	532	519	493	477	479	499	500	500	509	506	530	525	538	545	539	539	537	516	518											
11	525	525	526	527	527	525	524	521	513	502	493	495	493	521	532	536	510	552	544	550	548	541	533	532	525											
12	532	529	527	527	533	517	518	510	478	507	491	509	521	525	522	519	523	536	540	548	545	544	541	537	524											
13	533	529	509	518	509	510	513	513	509	505	506	505	507	517	521	533	537	545	541	553	571	546	540	528	525											
14	541	536	517	518	521	498	502	517	511	498	487	502	514	537	526	519	536	553	530	534	533	533	532	530	522											
15	527	525	522	521	517	526	525	511	496	494	494	490	496	506	518	528	530	539	545	537	541	538	533	533	521											
16 q	534	535	531	533	536	533	529	518	506	490	491	503	518	522	523	526	536	539	548	544	541	541	541	539	527											
17 q	536	529	530	532	533	533	527	518	513	502	495	496	506	523	537	545	548	544	541	541	541	540	537	534	528											
18 q	536	534	533	533	535	529	522	514	513	509	507	508	517	532	542	544	539	541	550	557	552	556	552	548	533											
19	544	544	544	545	541	538	532	527	522	510	508	517	518	529	557	563	575	552	552	564	563	544	543	544	541											
20	541	499	488	511	515	505	502	494	489	468	477	490	509	509	524	513	533	544	557	552	552	545	525	530	515											
21	552	525	525	515	521	522	513	500	486	479	459	476	462	507	518	532	526	572	568	553	546	540	537	539	520											
22	529	536	537	511	496	509	487	462	466	494	487	487	482	482	492	532	541	535	576	552	542	546	533	520	514											
23 d	520	522	505	513	529	513	498	513	502	491	502	502	490	489	525	531	515	556	564	571	565	529	525	517	520											
24 d	529	505	510	519	506	487	502	481	490	482	479	493	482	501	516	536	572	583	557	533	530	529	530	536	516											
25	537	525	520	521	518	519	513	494	490	488	474	487	483	486	506	525	540	568	552	545	546	552	529	522	518											
26	521	522	521	517	516	511	511	505	499	498	499	502	506	510	521	521	527	541	545	542	541	537	544	529	520											
27	539	521	524	526	522	520	517	509	505	507	502	503	505	509	521	525	546	557	568	559	557	548	545	530	528											
28 d	530	537	541	547	539	541	543	489	494	499	494	477	467	474	517	514	536	554	560	572	532	525	529	536	523											
29	528	518	521	521	514	529	528	518	506	500	501	499	515	521	532	534	533	532	526	525	534	537	537	537	523											
30 q	537	534	533	537	535	528	525	520	513	502	502	502	509	519	530	536	549	550	545	541	537	539	537	536	529											
Mean	535	529	526	527	525	524	520	511	503	497	494	499	501	513	525	532	539	549	550	550	546	542	538	534	525											

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

123 ESKDALEMUIR (D)												12° +												JUNE 1943											
	Hour G.M.T.																																		
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean										
1	29.8	30.5	30.0	28.8	28.1	26.8	26.5	27.3	28.6	31.1	32.6	34.0	35.8	36.0	35.2	34.1	33.7	33.4	33.6	33.7	32.3	24.1	27.4	29.8	31.0										
2	30.7	30.6	30.0	30.1	28.6	26.9	26.2	25.5	27.0	30.0	32.5	36.0	37.3	36.1	36.1	35.0	33.8	33.3	33.5	34.0	33.8	33.1	32.4	32.3	31.0										
3	32.2	31.1	30.6	29.8	28.6	27.7	27.7	28.7	29.6	29.5	30.6	34.7	37.5	37.1	36.5	35.7	34.9	34.0	33.1	32.7	32.4	32.2	31.7	29.6	32.0										
4 q	30.3	27.7	29.5	29.0	28.6	28.0	27.3	27.2	26.8	27.1	29.4	31.9	35.1	36.7	37.1	36.9	35.8	34.0	31.7	30.8	31.3	31.3	31.2	30.7	31.1										
5	30.9	30.3	30.4	29.5	29.2	27.8	26.6	25.8	25.9	27.5	29.5	32.2	36.1	38.5	39.6	39.4	38.6	37.2	36.4	33.7	33.4	32.2	31.2	30.8	32.2										
6	27.7	24.4	27.4	30.4	22.6	23.2	21.4	21.7	24.1	24.7	28.1	32.0	34.9	36.4	36.6	35.9	35.8	34.7	34.0	33.1	32.2	31.8	31.1	30.4	29.8										
7	30.3	29.9	29.9	29.4	27.8	26.5	26.1	26.1	26.4	28.5	30.7	34.7	37.6	38.2	38.9	39.4	38.0	36.8	35.3	33.2	32.9	32.4	32.7	30.3	32.2										
8 d	26.9	27.7	28.5	28.9	27.9	37.5	37.5	38.6	34.9	34.8	34.2	37.1	37.9	38.7	40.2	40.2	38.7	29.1	31.7	34.1	34.0	31.1	25.8	29.1	33.5										
9 d	31.2	33.3	30.3	29.5	34.9	30.4	27.7	28.1	27.9	32.2	33.9	34.7	34.1	36.7	35.5	35.2	36.8	35.2	33.8	30.6	31.9	32.2	29.6	30.8	32.4										
10	29.9	29.3	28.7	31.5	36.5	31.3	27.8	27.2	26.7	29.0	27.6	29.7	31.9	34.8	35.8	31.8	29.8	34.0	33.7	33.3	32.2	30.8	28.3	27.5	30.8										
11	29.7	30.4	30.4	29.6	28.6	27.7	26.7	26.0	28.8	31.0	35.4		37.7	37.3	36.8	36.8	34.9	33.8	33.9	33.4	33.2	30.9	32.2	30.3	31.8										
12	30.7	30.6	29.9	29.0	29.5	28.8	26.3	29.7	27.7	30.1	31.4	35.3	35.0	34.1	34.9	34.0	33.9	34.0	33.4	29.1	32.6	32.7	32.5	31.2	31.5										
13	33.4	41.2	27.5	24.4	26.4	27.5	26.5	26.8	25.9	27.7	30.5	34.3	36.9	37.8	38.5	38.1	35.0	34.6	34.1	33.8	30.0	30.2	30.1	31.2	31.8										
14	33.4	28.7	28.6	28.2	29.1	28.6	33.3	30.0	28.1	28.1	30.5	33.3	36.3	36.2	36.1	33.9	32.2	29.5	31.0	31.0	31.4	31.9	32.2	32.1	31.4										
15	31.7	31.6	29.9	28.7	28.2	27.4	26.3	26.7	26.2	27.9	30.1	32.5	34.3	35.7	36.6	35.9	33.5	32.4	32.5	32.2	32.0	30.6	29.1	30.3	30.9										
16 q	31.0	31.6	30.9	29.1	27.7	26.0	25.6	24.1	24.0	24.6	29.4	33.7	35.9	36.7	36.6	35.1	33.5	32.4	32.2	32.7	32.4	32.5	32.7	31.3	30.9										
17 q	30.4	29.7	28.3	26.9	26.8	26.1	25.8	26.6	26.8	27.7	29.4	31.2	33.3	33.8	33.3	32.4	32.1	32.2	32.4	32.4	32.5	32.9	31.9	32.1	30.3										
18 q	31.3	31.0	30.4	29.5	27.8	25.9	25.2	25.2	26.1	28.8	30.4	32.7	35.7	37.6	38.3	36.2	34.0	32.6	32.7	33.4	33.7	33.2	32.9	32.3	31.5										
19	31.4	30.4	29.8	29.7	26.9	24.8	23.7	24.9	26.2	27.9	30.9	34.3	37.1	38.5	39.7	39.4	38.5	36.0	33.8	33.4	33.1	31.3	29.9	32.7	31.8										
20	28.9	21.5	26.7	25.2	24.9	24.2	25.0	24.1	23.7	29.7	34.6	36.6	38.6	39.7	41.2	38.9	36.4	34.8	33.1	31.8	31.4	30.9	34.0	26.8	30.9										
21	30.0	24.9	26.1	27.4	29.8	25.9	25.5	27.3	27.3	27.0	29.9	35.0	38.1	40.2	41.9	41.9	38.9	36.6	32.3	33.2	32.2	30.3	32.1	29.6	31.8										
22	30.0	28.1	27.2	33.6	34.6	33.5	32.1	31.0	29.9	26.6	29.7	33.7	36.8	35.9	35.7	36.3	35.4	33.8	30.9	32.0	32.2	25.0	27.3	29.0	31.7										
23 d	29.5	28.4	29.5	31.2	29.0	26.7	26.9	24.3	24.3	25.4	28.6	32.4	35.7	37.6	37.6	39.4	36.3	34.5	34.9	34.4	31.3	32.1	31.3	29.8	31.3										
24 d	26.7	23.2	30.3	29.5	34.0	32.2	29.9	30.0	27.7	27.1	28.6	31.0	34.5	36.0	37.1	37.0	34.5	30.9	30.7	33.9	33.9	32.7	31.8	32.2	31.5										
25	31.2	31.0	29.1	25.9	26.7	26.3	25.7	26.3	26.0	26.0	26.8	29.7	31.6	34.2	34.8	34.9	34.5	30.2	32.2	32.4	29.5	29.8	30.9	29.4	29.8										
26	29.1	29.8	30.1	28.5	29.4	28.4	26.7	25.9	26.0	27.8	30.1	32.6	34.0	34.0	33.7	33.4	33.3	33.7	33.8	32.4	32.7	31.2	30.5	29.5	30.7										
27	32.0	28.6	28.7	28.5	27.0	25.7	25.8	26.4	26.3	27.0	28.7	31.2	33.1	34.6	35.8	35.6	34.5	34.1	34.0	33.7	33.5	32.3	23.7	26.0	30.3										
28 d	26.1	27.3	27.3	27.8	26.7	29.4	25.9	27.5	31.8	32.0	30.5	34.3	36.6	38.6	36.2	35.7	34.7	34.5	33.9	24.1	26.3	31.5	32.0	30.0	30.9										
29	30.3	28.5	29.1	29.7	35.2	32.3	27.0	27.3	26.6	27.0	29.4	33.1	34.8	36.1	35.7	34.8	33.9	32.3	31.2	30.6	31.2	31.1	31.1	30.3	31.2										
30 q	29.6	29.6	29.2	29.7	28.1	26.0	25.8	25.0	25.9	28.1	30.4	32.5	35.5	36.2	36.8	36.1	34.8	33.5	32.7	32.3	32.2	31.6	30.9	29.7	30.9										
Mean	30.2	29.4	29.1	29.0	29.0	28.0	27.0	27.1	27.0	28.3	30.3	33.4	35.7	36.7	37.0	36.3	35.0	33.6	33.1	32.4	32.1	31.2	30.7	30.2	31.3										

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

93

124 ESKDALEMUIR (V)												44,000γ (0.44 C.G.S. unit) +												JUNE 1943																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

125 ESKDALEMUIR												JUNE 1943							
TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +				
Horizontal force				Declination			Vertical force												
Maximum 16,000γ +		Minimum 16,000γ +		Range	Maximum 12° +		Minimum 12° +		Range	Maximum 44,000γ +						Minimum 44,000γ +		Range	
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ				°A.		
1	19 33	578	490	9 28	88	13 25	36.8	20.9	21 40	15.9	21 20	1099	1062	11 51	37	2, 2, 2, 3, 2, 2, 3, 2	18	0	82.9
2	18 35	557	478	10 25	79	12 49	38.3	24.3	8 0	14.0	18 23	1093	1064	11 31	29	1, 2, 1, 2, 3, 2, 2, 1	14	0	83.0
3	17 31	561	494	8 21	67	12 55	37.7	25.5	6 15	12.2	18 0	1088	1069	10 28	19	1, 2, 2, 1, 2, 2, 1, 2	13	0	83.1
4 q	17 28	552	490	11 57	62	13 39	37.6	26.7	9 1	10.9	17 0	1087	1064	13 30	23	2, 1, 2, 2, 2, 2, 0, 0	11	0	82.8
5	23 56	588	497	11 13	91	14 0	40.2	24.9	7 36	15.3	19 30	1087	1061	24 0	26	2, 1, 1, 2, 2, 2, 2, 3	15	0	83.1
6	0 1	588	498	8 47	90	13 55	36.9	19.7	6 46	17.2	20 10	1081	1040	3 46	41	4, 3, 2, 2, 2, 2, 1, 1	17	1	83.1
7	17 32	595	459	12 26	136	15 15	41.1	25.1	6 56	16.0	19 26	1098	1044	23 40	54	0, 1, 1, 3, 4, 4, 2, 3	18	1	83.1
8 d	17 48	619	475	10 59	144	15 15	42.1	23.3	17 31	18.8	17 30	1147	1045	0 1	102	3, 3, 3, 3, 4, 5, 4, 3	28	1	83.2
9 d	19 40	564	438	9 30	126	13 47	38.3	23.3	6 3	15.0	19 32	1110	1048	5 11	62	3, 4, 3, 4, 4, 4, 3, 3	28	1	83.3
10	21 54	560	444	10 32	116	15 7	36.9	24.9	22 35	12.0	16 20	1108	1055	5 3	53	1, 3, 3, 3, 3, 4, 2, 3	22	1	83.4
11	15 1	593	474	12 2	119	15 0	39.3	25.0	8 27	14.3	18 0	1099	1067	12 28	32	1, 0, 1, 3, 4, 4, 3, 2	18	1	83.6
12	19 34	575	466	8 26	109	11 59	37.6	24.8	6 41	12.8	19 21	1102	1067	10 10	35	1, 2, 3, 3, 3, 2, 3, 2	19	1	83.8
13	20 35	599	481	2 1	118	1 30	46.8	22.9	3 30	23.9	18 36	1105	993	2 3	112	4, 3, 2, 2, 3, 4, 4, 4	26	1	83.8
14	17 33	577	478	10 4	99	1 0	37.6	23.2	1 32	14.4	17 16	1105	1043	1 33	62	3, 3, 3, 3, 3, 3, 2, 0	20	1	84.1
15	18 30	548	486	11 30	62	14 38	36.8	25.8	6 2	11.0	18 42	1093	1072	10 58	21	1, 2, 2, 1, 1, 1, 2, 1	11	0	84.3
16 q	18 52	553	487	9 40	66	14 10	36.9	23.9	8 49	13.0	20 32	1090	1065	11 36	25	1, 1, 1, 2, 2, 2, 1, 1	11	0	84.4
17 q	16 0	552	491	11 17	61	13 30	34.0	24.9	6 10	9.1	17 1	1090	1068	11 48	22	1, 1, 1, 1, 2, 2, 0, 0	8	0	84.5
18 q	19 35	564	505	11 40	59	14 14	38.5	24.9	6 51	13.6	18 30	1087	1061	10 58	26	0, 0, 0, 1, 1, 2, 2, 1	7	0	84.5
19	15 53	619	502	12 51	117	23 57	44.0	22.9	6 12	21.1	18 12	1099	1049	24 0	50	0, 1, 1, 3, 3, 4, 3, 4	19	1	84.5
20	18 10	571	447	1 43	124	0 4	42.8	15.4	1 27	27.4	18 52	1103	997	1 54	106	5, 4, 2, 3, 3, 3, 3, 3	26	1	84.7
21	17 43	610	442	10 33	168	14 11	44.1	22.3	1 33	21.8	17 39	1122	1043	1 10	79	3, 3, 2, 3, 4, 5, 3, 3	26	1	84.9
22	18 13	606	440	8 6	166	12 50	37.8	22.2	21 22	15.6	19 1	1111	1034	4 46	77	3, 3, 3, 3, 3, 3, 4, 3	25	1	85.0
23 d	20 23	587	459	13 57	128	16 6	40.4	22.5	8 0	17.9	16 54	1118	1039	23 12	79	3, 3, 3, 3, 4, 4, 3, 4	27	1	85.0
24 d	16 59	627	460	12 25	167	15 55	38.4	21.2	1 32	17.2	18 33	1111	1033	4 40	78	3, 3, 3, 3, 3, 4, 3, 2	24	1	85.1
25	17 30	587	458	11 0	129	15 41	35.9	23.3	6 38	12.6	19 39	1100	1044	2 19	56	3, 3, 2, 3, 2, 4, 2, 3	22	1	85.2
26	19 12 } 22 43 }	553	494	10 53	59	12 22	34.7	24.0	7 35	10.7	19 50	1094	1068	12 40	26	1, 2, 1, 2, 2, 2, 2, 2	14	0	85.2
27	18 53	575	497	10 54	78	15 2	36.6	19.7	22 21	16.9	22 22	1097	1060	0 32	37	3, 1, 1, 2, 2, 2, 2, 3	16	0	85.2
28 d	19 47	604	455	13 9	149	13 14	39.5	19.7	19 37	19.8	19 12	1115	1061	11 50	54	2, 3, 4, 3, 4, 3, 4, 3	26	1	85.3
29	0 1	548	493	11 13	55	13 55	36.6	25.3	8 52	11.3	18 20	1088	1061	0 22	27	2, 3, 2, 2, 1, 2, 2, 1	15	0	85.5
30 q	16 59	556	495	9 50	61	14 9	37.4	24.9	7 14	12.5	18 10	1087	1069	12 4	18	1, 2, 1, 1, 2, 1, 1, 1	10	0	85.4
Mean	- -	579	476 - -	103	- -	38.7	23.2 - -	15.5	- -	1100	1052 - -	49	2.4	18.5	0.57	84.0			

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

126	ESKDALEMUIR (H)												16,000γ (0.16 C.G.S. unit) +												JULY 1943																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

127 ESKDALEMUIR (D)												12° +												JULY 1943										
	Hour G.M.T.																																	
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean									
1 q	30.0	30.5	30.3	29.8	30.8	25.9	25.0	25.7	25.0	27.3	28.9	31.3	32.7	34.9	35.9	35.1	34.0	33.3	32.3	32.4	32.2	31.6	31.5	30.9	30.7									
2	30.1	29.8	29.6	28.8	28.1	25.9	25.4	26.0	26.9	27.9	29.6	32.3	34.5	37.7	38.8	37.6	35.2	34.4	33.9	33.4	32.1	33.0	32.7	28.0	31.3									
3	24.0	26.3	26.0	23.9	25.9	29.6	29.9	27.2	29.1	28.8	27.7	32.1	36.9	38.4	38.9	37.2	35.6	34.4	33.4	32.5	31.3	30.9	30.8	30.8	30.9									
4 d	29.8	27.8	27.1	26.8	25.2	23.2	22.2	22.7	24.1	25.9	29.7	33.8	35.1	37.8	37.7	38.5	39.9	35.2	37.5	34.0	20.6	29.9	30.5	31.1	30.3									
5 d	29.4	32.4	25.4	27.3	25.8	30.4	29.8	29.5	28.8	29.3	28.6	31.3	35.1	38.2	38.8	36.7	37.6	35.7	30.9	29.5	28.9	29.6	18.5	23.1	30.4									
6 d	25.5	28.4	38.2	32.9	27.1	30.0	32.2	27.7	26.9	27.8	33.4	34.6	33.6	34.1	38.0	35.1	32.1	34.9	33.9	32.2	29.0	28.6	31.5	27.3	31.5									
7	28.6	32.4	28.2	25.8	26.6	31.6	30.9	27.9	26.7	26.7	29.6	32.3	35.3	35.9	35.7	35.1	33.5	35.3	34.8	33.5	33.2	26.3	25.9	27.6	30.8									
8 d	27.7	24.2	26.3	27.1	30.4	28.6	30.5	29.5	30.5	26.7	27.7	30.3	32.3	34.8	33.8	33.5	35.2	34.4	34.9	31.4	29.7	31.4	31.8	31.3	30.6									
9 d	30.3	28.9	34.1	32.2	32.5	32.1	34.9	37.7	33.9	32.0	29.2	28.7	30.4	34.0	35.1	36.1	36.7	36.5	28.5	30.2	29.4	29.0	29.8	31.1	32.2									
10	30.9	30.5	32.4	33.5	25.5	28.6	26.5	28.6	28.7	29.4	27.7	29.9	33.4	35.8	31.4	35.0	36.2	32.7	33.6	33.2	32.7	32.2	32.2	31.2	31.3									
11	30.5	32.0	31.3	30.5	29.9	28.3	32.5	31.4	34.4	32.2	31.4	32.1	34.1	33.2	33.1	34.8	33.6	30.3	30.5	32.3	32.2	30.8	27.6	29.7	31.6									
12	25.7	26.3	26.5	29.9	28.2	27.1	29.5	27.3	28.0	30.3	31.4	31.3	33.8	33.9	35.1	36.1	34.7	33.5	33.1	32.4	29.1	27.4	30.9	32.1	30.6									
13	34.3	30.0	25.7	27.4	27.8	27.7	26.7	25.5	24.9	27.8	28.8	30.3	33.3	34.0	34.2	34.9	34.7	34.4	32.2	33.4	30.2	33.4	30.7	30.4	30.5									
14 q	32.2	31.3	29.4	28.4	27.4	26.5	26.4	26.2	27.6	28.5	30.3	34.5	36.8	36.7	35.8	34.1	33.2	32.0	31.3	31.1	30.9	31.2	31.3	31.3	31.0									
15	30.5	30.5	29.9	31.2	28.6	26.8	26.4	25.3	25.9	27.6	30.5	33.4	35.7	36.1	37.1	37.6	35.9	33.8	32.0	27.6	29.3	28.0	29.2	30.2	30.8									
16	28.7	30.4	31.6	29.4	27.1	24.2	24.1	25.3	26.7	30.1	32.8	34.3	37.6	39.2	39.2	37.5	36.5	34.7	32.0	31.6	30.1	28.4	28.7	29.7	31.2									
17	30.5	34.2	28.9	25.8	26.6	25.9	25.8	25.7	26.0	27.8	31.6	33.2	35.1	37.0	37.5	36.5	34.7	34.3	33.4	31.9	32.0	31.6	28.4	21.5	30.7									
18	26.3	27.9	28.6	28.3	27.1	24.4	24.3	23.2	22.3	23.7	28.1	33.1	37.6	41.3	40.2	39.0	36.6	34.8	34.9	31.0	24.8	25.8	29.3	26.0	29.9									
19	27.6	27.3	32.4	32.0	27.7	24.7	27.8	30.3	26.9	26.7	27.1	29.0	32.1	35.7	36.4	35.8	36.6	35.2	34.3	32.5	31.8	27.5	24.3	26.8	30.4									
20	28.7	28.0	31.7	28.4	27.4	25.8	26.0	26.1	26.5	27.1	28.0	31.7	34.8	37.9	39.5	37.4	32.9	34.3	34.0	33.1	31.6	31.6	30.5	30.2	31.0									
21	26.1	29.5	26.1	26.7	28.3	28.8	30.1	27.7	25.9	25.7	29.1	31.1	34.1	36.7	37.5	38.0	37.2	31.6	33.6	33.7	33.2	30.6	31.2	30.6	31.0									
22	30.2	27.6	30.9	32.8	29.4	28.4	27.6	26.4	27.7	28.2	29.4	31.2	34.1	35.4	34.7	34.8	35.1	35.2	31.4	31.1	32.0	31.8	30.9	28.3	31.0									
23	29.1	29.4	30.6	29.8	29.2	26.9	26.8	26.9	26.3	27.7	29.5	32.1	36.1	37.1	38.0	38.4	37.0	35.3	33.6	32.0	31.7	31.3	30.2	29.6	31.4									
24 q	28.7	27.1	27.8	27.6	29.6	29.8	28.0	27.4	26.2	26.3	28.6	31.9	35.1	37.2	36.9	36.6	34.8	33.3	32.2	31.3	31.2	31.1	30.9	30.5	30.8									
25 q	30.4	30.4	30.6	29.1	29.4	28.5	27.1	26.7	27.0	28.4	29.6	31.4	34.1	35.7	35.4	34.2	33.3	33.0	33.2	33.0	32.4	31.4	30.1	29.7	31.0									
26	29.7	29.5	28.8	28.3	28.1	26.8	25.1	24.7	25.0	26.6	28.3	32.1	36.0	37.0	37.6	36.6	34.1	33.1	33.1	32.1	26.2	32.0	32.2	30.3	30.6									
27	30.4	30.1	23.2	26.7	28.6	29.6	29.2	27.1	26.4	27.5	29.7	33.7	35.8	37.0	37.1	36.7	34.6	33.5	32.6	32.2	32.1	31.3	30.3	30.2	31.1									
28	29.6	29.6	29.4	29.0	28.4	28.4	26.6	25.6	25.1	26.1	29.0	32.3	35.7	36.9	36.6	35.7	34.2	32.7	31.9	32.0	31.5	31.2	31.2	29.6	30.8									
29 q	30.3	30.3	31.4	29.0	26.2	25.8	24.8	25.0	25.8	28.3	30.3	33.3	35.4	36.3	36.2	35.0	33.4	32.3	32.0	31.9	32.4	32.3	31.6	29.6	30.8									
30	28.9	30.3	29.1	28.6	27.7	25.8	26.5	25.3	25.8	25.6	32.3	34.3	39.6	42.4	41.2	40.2	36.3	33.8	34.0	23.0	25.8	30.9	31.0	29.3	31.2									
31	25.7	26.0	25.8	27.9	27.4	26.0	26.0	27.5	26.9	30.1	32.6	37.6	40.3	42.1	41.2	39.5	35.9	32.2	31.3	30.5	30.0	26.6	28.3	30.0	31.1									
Mean	29.1	29.3	29.3	28.9	28.0	27.5	27.6	27.1	27.0	27.9	29.7	32.3	35.1	36.8	36.9	36.4	35.2	33.9	32.9	31.7	30.3	30.3	29.8	29.3	30.9									

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

95

128 ESKDALEMUIR (V)		44,000γ (0.44 C.G.S. unit) +												JULY 1943												Mean
Hour G.M.T.		0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
		γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1 q	1085	1085	1082	1080	1077	1076	1078	1074	1073	1067	1061	1061	1061	1066	1067	1068	1074	1079	1081	1082	1082	1081	1080	1080	1081	1076
2	1081	1081	1081	1082	1082	1083	1081	1078	1075	1073	1068	1061	1061	1055	1064	1070	1074	1079	1080	1081	1081	1082	1081	1079	1068	1076
3	1073	1073	1073	1074	1070	1046	1042	1037	1045	1062	1067	1069	1069	1071	1075	1080	1081	1085	1089	1088	1087	1085	1087	1086	1082	1072
4 d	1074	1066	1069	1075	1080	1081	1079	1075	1069	1067	1058	1051	1051	1063	1065	1072	1087	1111	1137	1123	1121	1123	1091	1081	1072	1083
5 d	1066	1039	1018	1055	1063	1065	1063	1066	1068	1075	1077	1076	1076	1079	1085	1099	1105	1115	1116	1117	1103	1108	1099	1088	1073	1080
6 d	1074	1073	1042	1020	1044	1054	1048	1064	1072	1075	1078	1073	1073	1082	1097	1103	1117	1127	1114	1105	1109	1106	1096	1067	1061	1079
7	1066	1052	1055	1069	1075	1067	1062	1069	1075	1084	1085	1085	1085	1081	1080	1085	1097	1099	1097	1096	1095	1092	1093	1085	1082	1080
8 d	1051	1045	1062	1069	1067	1069	1073	1076	1075	1074	1078	1078	1078	1080	1085	1091	1094	1097	1099	1097	1104	1099	1095	1089	1085	1081
9 d	1080	1081	1071	1074	1079	1080	1076	1067	1073	1085	1086	1090	1090	1093	1091	1097	1100	1108	1109	1117	1121	1109	1091	1091	1087	1090
10	1085	1085	1079	1031	1038	1057	1065	1072	1069	1069	1079	1086	1086	1081	1093	1113	1110	1111	1117	1111	1103	1096	1092	1090	1088	1084
11	1087	1086	1081	1081	1073	1079	1066	1076	1080	1073	1074	1075	1075	1080	1094	1100	1097	1099	1105	1105	1103	1100	1094	1081	1057	1085
12	1053	1062	1063	1043	1051	1062	1069	1075	1079	1086	1086	1082	1082	1075	1076	1077	1091	1100	1102	1097	1105	1109	1103	1092	1085	1080
13	1075	1037	1048	1061	1069	1075	1084	1082	1081	1082	1086	1084	1084	1082	1081	1085	1099	1110	1115	1111	1103	1096	1086	1085	1087	1083
14 q	1083	1075	1081	1085	1087	1087	1087	1090	1087	1085	1081	1079	1079	1080	1081	1082	1082	1084	1085	1087	1088	1089	1087	1087	1086	1084
15	1086	1085	1081	1081	1080	1082	1082	1085	1085	1087	1087	1081	1081	1083	1087	1093	1103	1105	1111	1112	1115	1108	1101	1093	1087	1092
16	1081	1074	1071	1064	1072	1081	1083	1079	1081	1087	1085	1080	1080	1075	1079	1091	1103	1114	1121	1126	1116	1108	1103	1094	1093	1090
17	1091	1083	1056	1069	1075	1079	1080	1080	1080	1080	1075	1075	1075	1075	1076	1085	1091	1097	1098	1098	1099	1098	1093	1096	1082	1084
18	1077	1075	1081	1081	1081	1081	1081	1080	1080	1075	1068	1069	1069	1069	1073	1086	1105	1117	1117	1111	1117	1112	1103	1091	1079	1088
19	1077	1081	1075	1057	1063	1075	1081	1081	1082	1086	1082	1073	1073	1079	1081	1087	1093	1097	1109	1112	1109	1101	1089	1085	1081	1085
20	1081	1080	1079	1079	1082	1081	1082	1081	1081	1084	1077	1069	1069	1066	1069	1076	1082	1088	1093	1094	1093	1090	1086	1084	1085	1082
21	1073	1053	1066	1075	1080	1080	1078	1079	1079	1096	1081	1076	1076	1074	1079	1086	1088	1096	1110	1110	1104	1097	1091	1080	1075	1084
22	1079	1081	1081	1066	1066	1073	1076	1081	1079	1082	1082	1076	1076	1079	1085	1087	1091	1094	1094	1099	1097	1092	1079	1063	1076	1082
23	1081	1085	1081	1082	1084	1082	1085	1082	1085	1081	1070	1070	1070	1070	1079	1085	1086	1087	1090	1091	1093	1094	1092	1089	1086	1084
24 q	1081	1081	1081	1083	1085	1081	1083	1085	1086	1088	1085	1076	1076	1071	1076	1080	1084	1087	1087	1087	1087	1087	1087	1087	1087	1083
25 q	1086	1086	1085	1085	1085	1085	1085	1084	1080	1080	1075	1070	1067	1073	1075	1075	1076	1079	1080	1081	1082	1086	1086	1085	1085	1081
26	1081	1081	1081	1081	1082	1081	1078	1073	1073	1072	1068	1063	1063	1061	1061	1066	1075	1082	1087	1091	1097	1098	1088	1087	1085	1079
27	1074	1051	1040	1052	1061	1064	1066	1068	1072	1075	1075	1070	1070	1069	1073	1081	1090	1090	1088	1090	1090	1088	1088	1087	1086	1075
28	1085	1085	1085	1085	1085	1084	1080	1076	1070	1074	1073	1064	1064	1064	1073	1075	1080	1085	1087	1085	1081	1084	1085	1085	1084	1080
29 q	1083	1081	1081	1075	1081	1085	1086	1087	1085	1082	1078	1074	1074	1074	1075	1081	1085	1087	1089	1087	1082	1081	1084	1084	1081	1082
30	1081	1080	1081	1081	1082	1081	1075	1074	1073	1062	1054	1054	1054	1058	1069	1083	1105	1105	1115	1109	1111	1099	1090	1086	1080	1083
31	1069	1068	1074	1081	1087	1088	1081	1081	1078	1068	1071	1073	1073	1070	1075	1086	1098	1105	1107	1101	1099	1097	1086	1080	1076	1083
Mean	1077	1073	1071	1070	1074	1076	1075	1076	1077	1078	1076	1073	1073	1073	1078	1085	1092	1097	1101	1100	1099	1097	1091	1085	1081	1082

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

129 ESKDALEMUIR												JULY 1943							
TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.				
Horizontal force						Declination			Vertical force										
Maximum 16,000γ +		Minimum 16,000γ +		Range	Maximum 12° +		Minimum 12° +		Range	Maximum 44,000γ +						Minimum 44,000γ +		Range	
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ						
1 q	18 6	550	510	10 35	40	14 28	36.5	24.5	6 0	12.0	0 1	1085	1058	11 3	27	1,0,2,1,2,1,1,1	9	0	85.5
2	23 3	580	509	10 53	71	14 16	39.4	24.8	6 56	14.6	5 55	1085	1054	12 16	31	1,0,1,1,2,1,1,3	10	0	85.5
3	2 50	560	482	13 28	78	14 23	39.6	20.4	3 36	19.2	18 0	1093	1032	7 14	61	3,3,3,2,3,3,2,2	21	1	85.5
4 d	16 22	604	470	12 13	134	16 28	42.6	17.6	20 20	25.0	17 22	1141	1050	11 38	91	2,2,2,3,4,5,4,3	25	1	85.5
5 d	18 53	661	445	14 25	216	16 46	41.3	10.4	22 38	30.9	17 48	1123	997	2 0	126	4,4,4,4,5,5,5,4	35	2	85.5
6 d	16 21	591	392	10 44	199	2 32	47.1	22.7	20 22	24.4	16 11	1134	1015	3 22	119	4,4,4,5,4,4,4,3	32	1	85.8
7	18 3	567	451	11 31	116	13 48	36.6	23.1	21 52	13.5	15 53	1102	1046	1 54	56	3,3,3,3,3,3,3,3	24	1	85.8
8 d	19 54	585	447	11 43	138	14 11	36.8	22.4	1 31	14.4	19 35	1106	1037	0 52	69	3,3,4,4,4,3,3,2	26	1	85.8
9 d	18 14	685	385	7 50	300	7 20	43.0	17.8	18 8	25.2	18 4	1133	1063	7 22	70	3,2,5,4,3,4,5,3	29	1	85.8
10	17 13	587	438	11 22	149	3 18	39.3	22.3	6 50	17.0	17 0	1121	1013	3 46	108	3,3,3,3,3,4,3,2	24	1	85.9
11	18 51	557	435	8 33	122	8 42	37.5	23.3	22 56	14.2	17 50	1109	1051	24 0	58	2,3,4,3,4,3,3,3	25	1	86.0
12	18 36	570	467	10 2	103	15 1	37.4	23.2	20 50	14.2	20 47	1114	1039	3 32	75	3,3,3,3,3,3,3,3	24	1	85.8
13	20 33	604	469	11 6	135	0 37	38.7	23.3	2 45	15.4	17 50	1117	1033	1 46	84	4,2,2,2,4,4,4,2	24	1	86.0
14 q	19 3	557	495	11 3	62	12 26	37.4	26.0	7 38	11.4	7 30	1091	1074	1 41	17	2,0,0,1,1,2,2,1	9	0	85.8
15	19 22	559	502	10 5	57	15 15	39.2	24.9	7 1	14.3	19 10	1117	1079	3 55	38	1,1,1,2,2,3,3,2	15	0	86.2
16	16 11	552	498	11 12	54	13 25	39.8	22.6	5 50	17.2	18 24	1128	1062	3 21	66	3,3,2,1,3,3,3,2	20	0	86.3
17	23 10	573	493	13 33	80	1 51	42.4	20.4	23 39	22.0	20 1	1103	1050	2 19	53	4,2,1,2,3,3,3,3	21	1	86.2
18	15 33	587	471	11 53	116	13 18	44.8	21.3	5 57	23.5	17 1	1122	1067	10 56	55	2,2,2,4,4,4,4,3	25	1	86.2
19	16 20	576	474	10 50	102	16 20	37.8	22.4	21 55	15.4	18 1	1117	1055	3 30	62	3,3,3,2,3,3,3,3	23	1	86.3
20	16 28	568	486	10 0	82	14 57	40.0	24.5	5 40	15.5	17 55	1099	1064	12 30	35	3,2,1,2,3,3,2,2	18	0	86.3
21	17 16	589	468	12 9	121	15 20	39.6	24.1	8 40	15.5	17 50	1114	1051	1 31	63	3,2,2,3,4,4,2,3	23	1	86.4
22	21 4	574	450	10 16	124	13 37	38.6	24.9	9 52	13.7	18 32	1103	1060	3 55	43	3,2,2,3,3,3,3,3	22	1	86.4
23	20 3	558	496	16 9	62	15 12	39.3	25.1	8 24	14.2	20 35	1097	1068	11 10	29	2,1,2,2,3,3,2,1	16	0	86.4
24 q	20 0	540	496	11 7	44	13 16	37.5	24.7	9 1	12.8	9 0	1091	1069	12 35	22	2,2,1,1,2,2,1,0	11	0	86.5
25 q	19 9	560	494	13 12	66	13 35	36.1	26.0	7 1	10.1	4 35	1087	1064	11 10	23	0,1,1,1,2,2,1,2	10	0	86.5
26	18 36	586	491	12 42	95	12 26	38.4	22.2	8 6	16.2	20 10	1103	1058	12 6	45	1,1,2,3,3,2,3,2	17	0	86.4
27	18 2	554	492	12 24	62	14 3	38.1	20.9	2 17	17.2	15 47	1093	1033	2 13	60	3,3,2,2,3,3,2,2	20	0	86.5
28	18 0	552	488	13 16	64	13 39	37.5	24.8	8 53	12.7	17 19	1088	1061	11 51	27	0,1,2,2,2,2,2,2	13	0	86.5
29 q	23 25	554	492	10 16	62	13 47	36.7	23.3	7 19	13.4	17 20	1091	1073	12 30	18	2,2,1,2,1,1,1,2	12	0	86.4
30	17 39	566	467	9 54	99	12 57	43.2	20.6	20 2	22.6	17 37	1119	1052	10 58	67	3,3,2,4,3,4,4,2	25	1	86.3
31	21 29	579	450	11 6	129	13 47	43.1	17.8	21 28	25.3	17 4	1110	1062	0 54	48	3,2,2,3,3,2,3,4	22	1	86.2
Mean	-	577	471	-	106	-	39.5	22.3	-	17.2	-	1108	1051	-	56	2.5	20.3	0.61	86.1

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

130 ESKDALEMUIR (H)												16.000γ (0.16 C.G.S. unit) +												AUGUST 1943											
	Hour G.M.T.																																		
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean										
1	533	521	527	528	536	543	521	521	519	507	495	480	464	491	505	512	546	550	570	554	548	542	528	526	524										
2	526	517	519	519	534	506	480	497	510	500	492	484	500	516	492	524	544	554	543	543	536	539	536	542	519										
3	481	504	528	506	516	523	504	484	496	489	504	492	500	485	512	523	535	535	551	542	522	530	527	523	513										
4	508	519	519	523	504	517	516	500	494	488	484	500	493	511	519	528	543	580	575	560	544	532	535	519	521										
5	524	509	543	504	504	497	487	487	496	480	501	509	503	493	522	524	542	543	532	534	531	519	519	515	513										
6	516	516	519	512	508	520	516	504	469	484	484	496	511	520	527	540	519	531	544	560	516	523	522	525	516										
7	519	520	531	533	536	535	524	523	513	445	474	483	488	504	528	514	544	544	535	531	531	529	523	520	518										
8 d	529	534	538	529	511	539	528	523	519	496	475	464	464	535	573	632	608	608	554	497	464	445	484	436	520										
9	250	437	429	481	466	500	523	504	478	476	481	476	474	495	507	511	518	519	531	516	516	521	527	519	486										
10 q	504	490	489	489	515	511	507	504	500	494	492	496	499	504	504	515	520	528	531	527	524	527	519	524	509										
11 q	525	519	516	508	512	515	512	503	501	495	487	491	497	507	515	516	519	522	535	534	539	535	535	524	515										
12	535	523	520	524	525	527	519	510	510	501	498	500	509	516	517	528	525	533	546	548	551	547	539	559	525										
13 d	536	531	524	524	520	480	499	504	484	453	473	482	502	485	524	516	527	523	549	563	519	535	514	501	511										
14	507	530	512	514	513	516	501	497	489	474	474	486	500	504	523	536	531	550	544	569	554	519	505	535	516										
15	507	503	504	504	504	501	499	488	485	485	493	495	505	519	512	536	537	559	551	547	523	543	521	516	514										
16	524	522	507	505	516	521	473	476	494	488	444	462	488	505	515	514	535	539	543	539	536	554	534	523	511										
17	527	507	501	524	512	485	469	474	476	489	485	491	499	514	512	526	532	536	543	543	530	523	522	521	510										
18	521	508	528	506	489	494	501	488	457	444	441	490	495	485	496	492	516	526	509	529	520	516	515	510	499										
19	511	510	512	512	516	519	517	477	473	441	438	456	475	475	492	524	511	512	547	521	567	521	521	545	504										
20 d	539	488	487	492	495	516	477	514	503	472	441	445	469	488	492	505	524	531	507	526	519	560	520	512	501										
21	484	498	490	496	506	489	507	503	490	463	473	484	488	480	503	514	525	529	525	526	527	524	527	523	503										
22 q	520	515	515	516	514	516	510	505	501	492	488	488	496	500	512	528	522	528	532	528	531	532	522	520	514										
23 q	516	522	523	511	521	520	518	514	508	494	496	507	530	515	531	523	524	527	531	532	538	531	528	536	521										
24	516	519	512	520	517	484	522	516	510	496	496	498	506	512	515	539	531	536	538	527	527	523	543	518	518										
25	523	525	519	500	517	506	492	501	503	501	503	505	507	507	508	524	522	539	538	523	536	527	516	512	515										
26	508	516	512	503	515	531	485	464	470	504	494	487	501	519	515	522	530	534	529	527	532	524	528	523	511										
27 q	519	522	516	506	517	519	519	515	511	504	504	512	519	521	520	515	519	520	528	530	528	531	528	531	519										
28	536	534	525	531	523	531	535	534	540	520	496	485	500	511	489	500	515	504	519	520	536	508	483	500	516										
29	504	497	488	505	506	513	517	496	481	476	468	457	478	480	526	527	504	501	515	535	526	517	531	527	503										
30 d	522	527	516	483	508	544	539	523	472	448	426	449	430	497	547	531	496	520	498	493	511	477	405	415	491										
31 d	323	488	348	402	254	391	398	379	395	348	340	418	536	539	574	548	548	539	502	523	528	485	500	504	450										
Mean	503	512	507	507	504	510	504	498	492	479	475	483	494	504	517	525	529	535	535	534	529	524	518	516	510										

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

131 ESKDALEMUIR (D)												12° +												AUGUST 1943									
	Hour G.M.T.																																
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean								
1	34.3	33.1	28.4	26.9	26.2	25.5	25.8	30.2	30.8	31.2	32.3	36.7	38.8	37.9	38.2	36.8	35.7	29.7	30.7	31.3	30.0	27.9	29.9	30.8	31.6								
2	29.9	31.7	35.0	32.2	29.4	26.9	30.7	27.2	27.7	29.9	32.0	36.8	38.0	40.4	39.4	34.3	34.9	35.2	26.3	31.3	31.8	30.4	29.5	26.9	32.0								
3	27.7	31.9	25.9	28.7	32.2	29.4	29.6	30.4	31.7	30.3	29.9	32.2	35.2	36.0	34.7	35.2	34.1	32.5	30.9	24.9	27.7	30.9	27.9	24.8	30.6								
4	25.8	30.6	29.2	32.1	29.4	29.6	26.8	30.4	29.0	30.0	31.5	30.6	33.1	31.1	32.9	29.7	34.2	31.9	30.6	32.1	32.1	32.0	31.2	29.4	30.6								
5	30.8	33.5	31.1	27.5	29.8	29.6	32.4	29.6	28.7	28.7	28.4	30.2	33.6	34.2	35.5	35.1	35.0	33.6	34.0	31.4	26.9	29.6	29.0	26.7	31.0								
6	27.9	30.3	30.2	28.4	29.6	29.5	28.6	28.8	30.4	32.8	34.8	36.3	37.0	37.0	34.4	33.6	32.5	32.9	28.9	26.0	27.7	30.0	30.7	31.0	31.2								
7	29.8	29.3	29.1	29.3	29.6	27.8	28.5	28.6	28.1	25.2	30.6	33.5	36.4	39.5	39.8	36.6	32.2	31.7	31.7	31.5	31.4	31.5	31.3	30.9	31.4								
8 d	30.5	29.7	29.6	29.6	31.3	29.5	26.0	27.5	29.7	29.9	33.3	34.3	36.7	40.2	39.3	27.0	35.5	37.4	33.3	26.7	25.6	18.0	29.4	21.3	30.5								
9	7.0	9.7	17.2	25.8	32.4	31.9	29.0	28.7	29.5	25.9	28.5	31.4	33.2	34.7	36.4	34.8	33.9	32.3	29.7	31.4	31.3	29.9	31.9	29.6	28.6								
10 q	29.2	27.6	30.4	30.0	26.7	26.5	26.2	26.8	27.1	27.6	28.7	31.3	34.1	35.2	34.4	33.1	31.9	30.9	30.7	30.9	31.0	29.6	29.7	30.1	30.0								
11	31.9	29.5	30.4	26.6	29.0	26.9	26.8	26.6	27.8	29.5	31.3	33.3	35.1	36.0	35.1	33.4	31.1	30.4	31.1	31.4	31.1	31.2	28.4	29.8	30.6								
12 q	30.7	30.9	31.4	25.5	25.5	24.7	24.9	26.9	26.2	28.0	31.5	33.9	34.9	35.1	34.0	33.8	33.8	33.9	33.7	33.8	33.1	32.0	31.5	30.0	30.8								
13 d	27.4	26.6	25.2	25.2	22.9	19.5	25.3	24.3	26.2	31.7	38.3	39.5	40.1	43.2	40.5	38.6	34.0	31.8	26.3	18.5	23.2	11.6	22.7	25.9	28.7								
14	31.8	28.6	24.6	26.8	27.2	25.7	26.7	27.5	27.4	28.7	32.0	36.0	37.8	37.1	39.1	34.8	33.6	28.8	33.6	28.8	32.1	27.6	25.1	26.5	30.3								
15	25.6	30.1	31.8	31.3	27.0	29.4	27.2	25.7	25.2	27.4	28.7	32.2	34.9	36.6	35.6	32.5	33.4	33.8	28.4	24.7	27.9	27.0	29.4	29.6	29.8								
16	31.4	30.9	33.4	32.5	28.4	26.4	26.7	27.6	28.4	27.7	30.9	35.2	38.9	37.5	37.4	35.7	34.6	27.6	28.9	29.9	28.6	28.6	28.8	27.9	31.0								
17	29.1	34.9	31.3	27.7	26.1	32.2	30.4	30.0	27.7	26.1	29.2	31.9	34.6	36.9	36.6	36.6	35.0	31.8	31.3	30.2	24.2	27.5	32.4	32.5	31.1								
18	30.9	34.5	29.2	27.0	29.7	30.2	27.6	25.0	25.2	21.5	27.8	33.6	39.5	36.4	38.0	37.1	29.6	31.1	28.8	28.7	30.2	29.6	29.8	30.0	30.5								
19	30.2	30.1	29.7	30.3	29.9	30.7	29.1	32.4	36.0	31.5	33.4	34.8	38.5	39.9	38.4	39.4	38.3	31.1	27.0	31.0	22.2	26.5	31.8	23.5	31.9								
20 d	27.9	26.8	30.1	29.6	29.7	30.4	36.2	32.0	32.2	31.4	32.9	35.8	37.8	38.9	35.7	35.3	32.9	31.1	29.0	28.9	29.9	28.6	29.1	29.5	31.7								
21	30.4	26.7	28.1	26.8	27.0	31.8	29.3	24.1	24.4	27.0	29.3	32.4	35.1	37.5	35.3	34.1	32.6	31.2	30.8	30.7	30.5	29.1	29.5	29.7	30.1								
22 q	31.2	29.2	29.3	28.7	28.6	27.7	27.8	28.6	28.2	29.4	30.8	33.0	35.3	35.3	34.9	34.3	32.9	31.6	30.9	30.5	31.3	29.7	29.0	29.6	30.7								
23 q	28.8	27.8	26.7	25.7	26.8	25.9	26.3	27.2	27.7	29.1	30.6	33.7	35.8	35.9	36.9	34.4	32.7	32.5	32.9	32.4	32.9	31.7	30.5	23.0	30.3								
24	25.2	21.1	23.8	27.2	24.9	34.0	39.6	26.9	28.6	29.9	31.2	34.1	35.5	36.0	35.7	36.1	35.5	30.4	32.2	32.9	32.3	29.1	25.7	27.5	30.6								
25	28.7	31.1	33.0	30.7	25.9	23.7	25.5	27.2	27.6	26.9	27.7	29.7	32.5	34.9	34.8	33.4	33.2	29.2	31.5	29.9	29.8	27.2	22.1	24.3	29.2								
26	24.3	26.1	27.8	30.2	29.3	30.1	31.7	31.7	32.2	27.4	29.3	32.8	33.6	35.8	35.1	34.9	32.7	32.5	31.4	27.7	27.7	29.9	28.1	29.4	30.5								
27 q	29.2	28.6	27.5	29.1	28.9	27.7	27.6	27.3	27.1	28.6	30.5	33.1	35.6	36.1	35.2	33.8	32.5	31.2	30.9	30.8	28.8	30.1	30.4	31.9	30.5								
28	29.7	27.9	26.9	25.2	24.2	25.8	26.7	26.0	26.5	29.3	31.2	35.8	40.3	44.3	43.9	38.5	35.7	30.9	29.6	28.7	27.6	27.2	19.7	12.4	29.7								
29	25.7	24.9	27.6	35.1	31.2	29.8	26.7	26.7	23.7	25.3	29.5	33.0	37.4	38.1	42.8	34.9	36.9	34.2	30.5	20.5	24.7	27.9	28.9	29.7	30.2								
30 d	30.6	33.2	46.6	37.4	27.4	27.6	21.6	23.2	26.3	30.6	33.1	36.5	37.0	38.2	38.3	32.5	33.6	24.1	29.6	22.9	23.1	15.8	21.3	32.2	30.1								
31 d	15.3	17.6	26.8	26.1	48.5	49.3	39.5	36.6	25.8	31.1	33.3	34.2	38.1	40.3	35.7	35.6	29.1	25.7	28.4	21.8	23.3	24.2	25.4	28.7	30.9								
Mean	28.0	28.5	29.3	28.9	28.9	28.9	28.6	28.1	28.2	28.7	31.1	33.8	36.3	37.3	36.9	34.7	33.7	31.4	30.4	28.8	28.7	27.8	28.4	27.9	30.5								

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

97

132 ESKDALEMUIR (V)

44,000γ (0.44 C.G.S unit) +

AUGUST 1943

	Hour G.M.T.																								Mean
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2	1060	1055	1071	1080	1081	1079	1079	1074	1072	1069	1068	1068	1075	1075	1080	1087	1091	1121	1111	1109	1103	1091	1085	1085	1082
3	1085	1085	1076	1076	1070	1072	1068	1075	1078	1081	1075	1067	1070	1079	1094	1110	1112	1117	1133	1111	1102	1093	1080	1064	1086
4	1050	1026	1049	1051	1049	1061	1069	1073	1070	1079	1080	1075	1079	1093	1103	1105	1107	1106	1111	1126	1112	1098	1083	1076	1080
5	1078	1077	1076	1071	1062	1070	1079	1080	1082	1086	1085	1086	1087	1103	1110	1121	1111	1112	1122	1109	1099	1090	1068	1075	1089
6	1077	1056	1031	1055	1055	1060	1068	1070	1075	1081	1085	1085	1083	1087	1098	1111	1121	1121	1117	1111	1105	1097	1083	1082	1084
7	1081	1073	1068	1071	1075	1079	1082	1084	1085	1081	1074	1066	1068	1076	1088	1098	1109	1105	1112	1115	1112	1099	1093	1088	1087
8	1088	1088	1088	1088	1087	1086	1086	1085	1083	1082	1080	1076	1081	1083	1092	1098	1105	1103	1100	1096	1093	1089	1088	1090	1089
d	1090	1090	1088	1082	1067	1057	1067	1073	1073	1075	1076	1081	1089	1111	1153	1259	1232	1188	1161	1128	1094	1020	1033	971	1098
9	851	914	912	948	962	1007	1034	1061	1070	1088	1093	1095	1103	1110	1115	1131	1126	1128	1118	1108	1100	1099	1085	1068	1055
10	q	1060	1069	1063	1057	1064	1069	1081	1087	1087	1087	1089	1090	1091	1091	1090	1096	1097	1097	1097	1097	1097	1094	1090	1084
11	q	1075	1075	1077	1085	1091	1091	1090	1092	1093	1091	1085	1082	1076	1075	1082	1088	1097	1099	1093	1089	1087	1091	1091	1087
12	1085	1081	1075	1082	1087	1088	1091	1086	1085	1081	1075	1076	1074	1075	1081	1087	1091	1091	1088	1087	1087	1089	1091	1075	1084
13	d	1069	1075	1082	1081	1082	1077	1064	1063	1067	1063	1061	1075	1096	1118	1126	1128	1135	1130	1124	1117	1095	1058	1064	1057
14	1028	1048	1069	1080	1082	1080	1087	1091	1091	1087	1079	1076	1088	1092	1102	1109	1112	1117	1109	1110	1082	1088	1067	1046	1084
15	1067	1076	1076	1069	1081	1081	1081	1086	1087	1087	1082	1081	1079	1084	1102	1109	1103	1102	1121	1117	1106	1073	1075	1081	1088
16	1080	1081	1056	1040	1051	1064	1069	1073	1074	1078	1075	1076	1085	1088	1096	1100	1105	1120	1113	1109	1103	1086	1072	1075	1082
17	1057	1027	1019	1055	1066	1058	1066	1077	1082	1087	1082	1079	1076	1082	1091	1099	1103	1109	1106	1105	1109	1099	1087	1064	1079
18	1067	1058	1063	1073	1068	1065	1081	1086	1085	1080	1086	1093	1087	1100	1103	1109	1131	1126	1114	1106	1097	1094	1093	1093	1090
19	1093	1096	1094	1094	1093	1091	1085	1087	1078	1085	1085	1084	1099	1120	1141	1134	1129	1139	1134	1123	1097	1085	1073	1034	2099
20	d	994	1017	1027	1049	1014	1079	1069	1062	1066	1073	1075	1086	1091	1100	1127	1122	1117	1112	1121	1116	1106	1090	1073	1067
21	1025	1001	1027	1061	1063	1062	1055	1079	1087	1087	1087	1081	1085	1091	1099	1098	1098	1098	1098	1095	1094	1097	1092	1087	1077
22	q	1078	1085	1091	1092	1093	1092	1093	1093	1092	1087	1085	1087	1093	1093	1097	1098	1098	1099	1099	1095	1093	1093	1093	1092
23	q	1091	1086	1079	1079	1085	1086	1086	1086	1085	1078	1067	1061	1065	1078	1082	1087	1094	1093	1090	1088	1088	1092	1093	1081
24	1058	1062	1063	1069	1079	1064	1028	1052	1061	1063	1068	1069	1068	1072	1076	1086	1102	1115	1112	1098	1092	1092	1083	1081	1076
25	1081	1075	1043	1023	1040	1031	1038	1039	1040	1075	1076	1078	1076	1080	1085	1102	1099	1106	1103	1103	1090	1089	1076	1067	1071
26	1070	1079	1079	1061	1063	1061	1062	1071	1067	1072	1071	1069	1069	1074	1079	1085	1091	1096	1098	1099	1093	1086	1082	1079	1077
27	q	1079	1078	1079	1079	1076	1080	1082	1082	1082	1083	1078	1073	1067	1068	1076	1079	1081	1083	1082	1085	1086	1085	1085	1076
28	1074	1069	1069	1069	1069	1073	1074	1073	1067	1067	1069	1071	1069	1079	1117	1117	1129	1139	1121	1112	1105	1064	1008	1020	1080
29	1025	1037	1038	1033	1063	1074	1083	1085	1088	1084	1082	1087	1093	1108	1118	1164	1126	1110	1105	1105	1088	1085	1078	1073	1085
30	d	1074	1070	1019	961	991	1051	1064	1073	1081	1088	1091	1092	1110	1134	1177	1205	1171	1151	1140	1133	1075	1008	980	865
31	d	852	892	817	828	798	806	911	942	1025	1063	1099	1139	1181	1202	1195	1256	1242	1181	1141	1121	1050	1065	1064	1056
Mean	1053	1055	1051	1053	1055	1061	1067	1072	1076	1080	1079	1081	1085	1094	1105	1118	1118	1117	1113	1107	1095	1083	1075	1063	1081

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

133 ESKDALEMUIR

AUGUST 1943

	TERRESTRIAL MAGNETIC ELEMENTS											3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +	
	Horizontal force				Declination			Vertical force								
	Maximum 16,000γ +	Minimum 16,000γ +	Range		Maximum 12° +	Minimum 12° +	Range		Maximum 44,000γ +	Minimum 44,000γ +	Range					
	h. m. γ	γ h. m.	γ	γ	h. m.	γ h. m.	γ	γ	h. m.	γ h. m.	γ				°A.	
1	18 4 640	446 12 23	194		12 31 40.2	20.3 17 59	19.9		17 46 1129	1050 1 19	79		3, 2, 3, 3, 3, 4, 5, 3	26	1	86.1
2	18 39 585	465 14 29	120		13 36 42.7	20.6 18 22	22.1		18 18 1145	1059 23 53	86		3, 3, 3, 3, 4, 4, 4, 3	27	1	86.1
3	18 18 573	464 13 57	109		0 55 42.0	19.5 19 36	22.5		19 32 1128	1007 1 11	121		5, 3, 4, 3, 3, 3, 4, 3	28	1	86.5
4	17 57 628	464 12 52	164		16 39 36.7	23.9 0 7	12.8		15 13 1126	1055 4 2	71		3, 3, 3, 3, 4, 4, 5, 3	28	1	86.6
5	2 16 572	464 7 7	108		2 6 40.4	24.2 3 1	16.2		16 55 1123	1021 2 22	102		4, 3, 3, 3, 4, 3, 3, 3	26	1	86.7
6	19 18 597	457 8 33	140		13 15 38.2	17.6 18 55	20.6		18 52 1123	1064 11 21	59		2, 2, 3, 3, 2, 4, 4, 2	22	1	86.7
7	16 14 565	414 9 51	151		13 59 41.3	24.1 9 23	17.2		16 30 1106	1075 11 35	31		2, 2, 2, 4, 4, 3, 1, 2	20	1	86.7
8 d	17 40 722	360 21 7	362		17 44 47.0	-0.3 21 18	47.3		15 30 1326	888 24 0	438		3, 4, 3, 4, 5, 6, 5, 6	36	2	86.8
9	23 45 554	55 0 6	499		14 58 38.4	-3.8 0 9	42.2		15 32 1133	797 0 10	336		7, 4, 4, 3, 3, 3, 2, 4	30	2	86.9
10 q	23 43 541	480 2 16	61		13 40 36.0	24.9 4 48	11.1		19 20 1098	1051 3 1	47		2, 3, 2, 2, 2, 1, 2, 2	16	0	86.9
11 q	20 19 547	473 10 56	74		13 39 36.4	25.8 3 19	10.6		17 20 1099	1074 12 53	25		2, 2, 1, 2, 2, 2, 2, 2	15	0	86.8
12	23 23 604	494 10 50	110		13 6 35.9	23.2 24 0	12.7		23 2 1093	1062 23 35	31		2, 1, 2, 1, 2, 2, 2, 4	16	0	86.9
13 d	19 52 605	414 9 31	191		13 6 47.3	3.5 21 40	43.8		17 3 1104	1046 21 25	58		3, 4, 4, 4, 5, 4, 5, 5	34	1	86.9
14	19 58 673	449 22 46	224		14 7 41.7	18.1 19 53	23.6		16 55 1121	1019 0 30	102		4, 2, 2, 3, 4, 4, 5, 5	29	1	86.9
15	17 35 583	471 9 28	112		13 40 39.3	18.7 21 11	20.6		18 46 1124	1058 0 1	66		3, 3, 3, 3, 4, 4, 4, 4	28	1	86.9
16	21 9 589	398 11 1	191		12 48 40.3	24.1 21 6	16.2		17 30 1123	1038 3 32	85		3, 3, 4, 4, 3, 4, 2, 4	27	1	86.9
17	17 18 556	449 7 32	107		1 38 41.0	22.4 20 12	18.6		17 48 1112	998 2 5	114		4, 4, 3, 2, 3, 3, 3, 3	25	1	87.1
18	19 14 562	403 10 11	159		12 51 44.8	12.7 9 8	32.1		16 58 1135	1055 1 35	80		3, 3, 4, 5, 5, 4, 4, 1	29	1	87.3
19	20 23 624	422 10 39	202		15 22 44.3	9.0 20 20	35.3		17 53 1148	1015 24 0	133		1, 2, 3, 4, 3, 5, 5, 4	27	1	87.2
20 d	21 45 606	407 10 45	199		13 49 40.1	15.2 0 8	24.9		14 35 1133	980 0 46	153		5, 3, 4, 4, 3, 3, 3, 4	29	1	87.2
21	19 50 539	449 9 43	90		13 29 38.9	23.0 7 16	15.9		14 23 1100	991 1 17	109		3, 3, 3, 3, 3, 2, 2, 2	21	1	87.2
22 q	21 23 545	485 11 10	60		12 41 35.9	26.9 5 48	9.0		18 48 1102	1077 0 42	25		2, 1, 1, 1, 2, 2, 2, 2	13	0	87.2
23 q	23 20 574	492 9 19	82		14 7 39.4	18.1 23 46	21.3		16 47 1097	1061 11 38	36		2, 2, 1, 2, 3, 2, 3, 4	19	0	87.2
24	16 7 570	460 5 32	110		6 13 45.7	20.2 1 12	25.5		17 37 1118	1021 6 26	97		3, 4, 4, 3, 3, 4, 2, 3	26	1	87.3
25	17 42 558	486 7 34	72		2 3 37.3	19.1 22 31	18.2		17 31 1110	1016 3 34	94		3, 3, 3, 2, 3, 3, 3, 3	23	1	87.3
26	17 10 551	453 7 0	98		13 38 37.5	22.1 19 47	15.4		19 43 1100	1057 3 45	43		2, 3, 3, 3, 3, 3, 3, 2	22	1	87.1
27 q	18 24 536	496 9 49	40		13 1 36.8	26.1 7 1	10.7		20 50 1088	1067 13 18	21		2, 2, 1, 2, 3, 2, 2, 1	15	0	87.3
28	13 17 598	398 14 1	200		14 2 51.3	1.7 23 30	49.6		17 29 1142	1002 22 21	140		2, 3, 2, 3, 6, 5, 3, 5	29	1	87.2
29	19 41 574	424 13 25	150		14 54 51.2	11.4 19 31	39.8		15 22 1184	1013 0 21	171		4, 4, 3, 3, 5, 4, 4, 3	30	1	87.2
30 d	20 33 642	313 23 20	329		2 28 51.8	-3.8 20 31	55.6		15 19 1211	821 24 0	390		4, 5, 4, 4, 6, 5, 6, 6	40	2	86.8
31 d	17 21 634	156 4 30	478		4 40 69.3	4.3 19 56	65.0		16 13 1278	738 5 3	540		7, 7, 6, 6, 6, 5, 5, 4	46	2	86.8
Mean	- - 589	421 - -	167		- - 42.2	16.5 - -	25.7		- - 1134	1009 - -	125		3.2	25.9	0.94	86.9

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

134 ESKDALEMUIR (H)												16,000γ (0.16 C.G.S. unit) +												SEPTEMBER 1943													
	Hour G.M.T.																																				
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean												
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ												
1	462	511	472	503	511	491	480	488	476	455	437	454	477	488	487	500	517	540	550	512	512	513	518	535	495												
2	523	508	471	507	498	505	500	496	484	465	469	470	479	501	526	500	515	510	503	512	518	513	527	484	499												
3 d	495	477	510	496	492	506	470	483	465	460	457	433	465	473	492	518	511	521	519	516	517	551	504	508	493												
4	516	511	517	524	508	486	461	500	473	485	462	463	488	508	480	513	528	508	555	539	515	519	519	512	504												
5	513	515	513	495	512	497	493	499	492	477	472	457	492	501	520	531	538	517	524	512	539	524	515	512	507												
6	514	516	513	503	506	499	502	501	504	493	485	484	492	499	507	514	524	521	527	527	526	523	523	521	509												
7 q	521	522	521	518	516	508	512	508	503	496	489	488	492	510	511	516	530	531	522	534	537	525	527	527	515												
8	527	531	520	520	519	519	518	518	508	500	497	495	503	512	527	523	536	560	516	512	515	538	515	530	519												
9	464	532	520	512	488	509	518	512	493	478	465	484	496	511	508	504	523	520	520	520	531	550	520	503	508												
10	505	494	489	526	504	510	507	504	501	469	419	464	492	515	527	516	501	514	523	527	518	542	539	520	515												
11	508	496	504	521	485	509	517	508	492	493	494	493	499	493	499	512	523	503	527	526	531	526	507	512	507												
12	495	516	499	512	516	518	513	504	496	473	476	474	498	505	507	508	527	523	524	534	516	523	527	527	509												
13	515	515	476	487	523	509	504	508	504	494	471	464	480	504	505	505	515	524	520	538	523	519	523	525	506												
14	543	512	515	503	511	524	518	508	497	492	462	488	510	507	517	515	516	524	525	531	541	522	512	536	514												
15	531	503	506	512	508	517	504	497	495	492	485	492	499	504	504	510	536	520	523	527	527	520	537	517	511												
16 q	524	509	515	515	517	514	514	512	504	498	496	498	507	516	519	517	502	516	531	527	543	527	517	537	516												
17	515	527	518	505	500	516	519	506	503	499	497	494	498	504	500	511	524	528	534	531	524	520	523	531	514												
18 q	517	518	518	516	515	519	522	517	512	501	493	496	497	501	509	512	519	527	527	525	529	561	534	488	516												
19	496	509	511	517	527	504	512	520	515	501	481	486	504	501	505	512	524	530	522	531	527	527	528	518	513												
20 q	520	520	524	520	520	525	520	512	503	494	497	497	511	513	520	519	530	537	537	543	544	533	523	540	521												
21	515	544	528	522	528	527	512	504	504	508	495	453	491	487	514	510	516	525	533	526	515	524	531	529	514												
22	518	505	513	514	497	519	513	500	504	500	493	491	506	504	517	518	519	524	531	523	524	523	528	535	513												
23	524	524	508	497	511	520	511	516	507	485	485	488	496	504	514	522	514	519	524	527	527	541	521	514	512												
24 q	508	516	523	524	524	520	519	517	515	500	496	497	502	508	514	519	520	522	527	527	539	529	531	531	518												
25	531	530	530	530	536	547	514	515	524	506	497	495	475	499	499	519	511	519	523	524	523	524	526	531	518												
26 d	522	526	525	524	534	527	505	499	517	498	498	506	503	519	472	480	503	492	492	496	527	531	525	504	509												
27	513	501	519	513	535	531	506	516	511	493	458	465	497	500	487	514	512	511	548	531	501	559	523	509	510												
28 d	539	502	489	465	490	512	506	512	488	445	453	472	461	486	496	507	500	500	527	506	506	539	508	511	497												
29 d	496	501	508	500	531	539	520	507	450	424	426	426	449	476	515	516	497	504	476	510	499	504	509	512	497												
30 d	489	462	480	475	511	511	496	501	485	481	469	424	490	508	527	523	517	519	544	544	485	523	440	516	497												
Mean	512	512	509	509	512	515	507	506	497	485	476	476	492	502	507	513	518	520	525	525	523	529	519	519	509												

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

135 ESKDALEMUIR (D)												12° +												SEPTEMBER 1943											
	Hour G.M.T.																																		
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean										
1	38.7	28.1	29.5	29.3	26.1	27.3	31.4	30.2	31.7	29.3	32.4	34.7	34.9	36.3	35.6	32.9	32.0	24.7	24.2	28.3	31.6	30.7	29.8	28.3	30.7										
2	28.0	23.5	35.7	28.7	26.6	29.1	31.0	30.8	31.3	32.9	35.4	33.9	36.8	36.7	30.5	32.0	33.9	32.7	29.3	22.7	30.8	27.4	26.6	24.0	30.4										
3 d	25.6	32.2	28.8	29.2	35.2	37.6	36.6	30.3	30.9	29.4	30.9	30.1	32.5	36.9	34.8	31.4	32.0	23.3	28.4	28.5	27.4	31.3	33.3	23.2	30.8										
4	25.0	29.1	29.7	28.8	29.4	30.2	33.9	33.9	30.4	30.3	30.8	32.0	32.7	34.8	32.2	31.1	32.1	26.6	25.2	22.3	28.5	29.3	30.0	29.0	29.9										
5	29.4	32.4	31.9	35.7	28.0	28.8	27.6	26.2	27.6	27.8	29.9	29.5	31.6	34.5	34.8	35.3	28.2	30.3	28.8	28.4	27.7	27.5	24.2	27.7	29.7										
6	29.1	31.4	28.9	29.0	28.3	29.2	28.8	28.5	27.2	27.1	28.5	29.7	32.9	34.5	34.9	33.8	31.4	29.6	26.1	30.5	30.5	30.4	30.2	29.6	30.0										
7 q	29.0	32.2	28.5	29.0	27.4	27.5	27.8	27.7	27.9	28.0	28.7	31.8	33.7	36.2	35.3	33.7	33.7	33.5	30.5	31.1	31.8	30.1	29.5	28.2	30.5										
8	28.7	25.0	24.6	23.4	25.1	25.5	25.5	25.5	26.0	27.9	31.2	34.8	35.3	35.3	36.9	34.9	35.5	36.0	18.9	27.5	25.4	16.2	28.6	22.2	28.2										
9	19.1	24.9	20.5	20.5	28.8	28.1	26.1	26.1	28.7	28.5	29.4	32.4	34.9	36.7	37.9	35.8	34.1	32.2	30.3	27.3	29.3	33.1	28.1	16.0	28.7										
10	22.3	20.1	31.1	25.6	22.7	26.0	26.3	26.3	26.0	29.4	31.5	34.5	36.2	34.2	35.7	32.2	30.5	32.7	30.7	31.5	28.7	28.5	25.8	24.4	28.9										
11	24.9	34.0	35.0	26.6	26.3	26.2	26.0	26.1	27.8	27.8	29.5	31.8	35.5	37.8	34.6	34.3	33.0	30.4	31.2	30.9	30.4	19.9	18.3	24.4	29.3										
12	33.5	28.4	27.6	28.4	26.7	26.9	27.3	26.3	26.9	27.8	31.8	33.2	33.9	35.6	34.8	33.0	32.1	32.0	22.3	23.9	28.3	30.6	30.5	29.9	29.7										
13	27.3	30.1	23.2	30.9	26.9	26.5	28.0	27.3	27.1	30.1	31.9	36.8	36.3	37.8	36.9	34.2	26.7	30.8	23.1	26.8	28.6	28.6	28.9	27.8	29.7										
14	33.2	28.4	24.1	26.9	31.0	26.7	26.1	27.4	28.1	32.0	34.7	37.6	37.3	34.7	34.4	32.7	30.5	30.4	30.4	18.3	20.5	25.8	26.9	33.2	29.6										
15	28.0	25.8	25.9	27.5	27.6	27.7	27.8	27.0	26.9	29.0	32.0	34.1	35.5	36.6	35.0	31.0	32.2	31.8	28.6	23.3	28.6	28.7	34.8	29.3	29.8										
16 q	28.1	26.9	27.7	27.5	28.2	27.8	27.3	27.4	27.1	28.8	31.1	33.1	34.3	35.5	34.8	33.9	28.5	32.3	32.0	30.4	26.8	28.5	27.5	28.4	29.7										
17	26.7	25.9	23.2	24.3	29.4	29.8	28.7	26.3	27.3	28.7	30.8	33.0	34.8	36.1	35.0	32.2	31.8	30.7	30.6	30.2	26.3	28.0	29.1	28.9	29.5										
18 q	27.9	28.0	27.5	28.3	28.6	28.7	27.9	26.8	25.9	26.7	29.0	29.8	31.1	32.1	32.2	32.0	31.3	31.0	31.3	31.0	31.1	27.8	20.3	16.0	28.4										
19	26.8	28.0	29.4	28.5	28.3	27.7	31.4	27.7	27.0	27.6	30.0	32.4	33.1	33.5	33.1	32.4	32.2	31.6	29.3	30.3	30.4	30.3	26.4	26.8	29.8										
20 q	28.0	28.5	29.0	27.6	28.1	28.9	28.3	26.6	26.0	26.9	28.7	30.9	35.0	35.9	36.8	35.0	34.2	32.4	32.4	31.9	32.2	30.3	25.8	30.5	30.4										
21	22.9	23.9	20.2	25.3	26.0	26.0	26.0	29.1	28.7	28.3	30.3	32.9	34.9	36.7	35.9	35.1	33.3	31.5	31.7	22.3	27.8	29.2	27.2	25.9	28.8										
22	27.5	30.7	30.0	26.0	30.1	28.4	28.2	28.7	28.5	28.7	30.7	33.5	36.7	37.5	35.4	34.7	33.4	26.8	27.5	26.9	27.7	29.5	29.6	30.2	30.3										
23	31.2	33.2	30.2	32.2	29.7	27.8	29.3	27.7	28.1	28.5	29.9	33.5	34.2	34.5	34.5	33.5	33.0	31.2	30.4	29.7	27.7	24.7	24.2	24.3	30.1										
24 q	32.1	30.3	28.8	27.6	27.7	27.1	27.4	26.6	26.3	27.0	29.7	32.4	34.2	34.4	34.3	33.1	32.0	31.3	31.8	31.3	27.6	28.0	27.5	28.1	29.9										
25	29.1	29.0	28.1	28.6	28.6	27.8	27.9	33.0	31.1	28.3	28.8	33.4	33.3	36.6	34.2	33.8	32.8	29.6	30.3	29.5	28.4	28.0	28.1	27.7	30.3										
26 d	27.7	28.6	29.1	29.3	28.6	32.9	32.9	31.4	30.3	29.8	29.3	32.9	35.5	37.9	41.9	37.1	33.7	28.6	28.5	28.5	22.5	23.1	24.0	25.1	30.4										
27	30.1	34.9	32.0	27.8	26.9	30.6	28.5	26.9	28.6	29.4	30.5	32.2	34.4	36.1	35.2	31.4	32.2	29.6	12.0	22.7	24.4	23.8	25.8	24.2	28.8										
28 d	37.6	25.8	18.8	31.1	33.6	29.4	29.9	29.5	28.3	27.7	28.9	30.4	35.7	30.6	36.5	34.0	32.8	25.7	23.3	26.3	25.5	17.3	24.2	24.5	28.6										
29 d	22.8	31.7	32.1	35.1	34.7	32.9	29.6	31.5	30.5	29.2	30.3	36.9	37.0	35.5	29.2	33.0	26.6	25.5	16.7	15.1	26.8	28.7	31.7	25.9	29.5										
30 d	25.2	34.9	38.7	32.1	38.2	29.3	28.7	27.9	26.9	27.3	28.6	26.9	32.1	32.4	33.4	28.6	29.7	32.2	14.8	21.7	25.2	10.6	18.5	20.2	27.7										
Mean	28.2	28.9	28.3	28.4	28.8	28.6	28.7	28.2	28.2	28.7	30.5	32.7	34.5	35.5	34.9	33.3	31.9	30.2	27.0	27.0	27.9	26.9	27.2	26.1	29.6										

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

99

136 ESKDALEMUIR (V)													44,000γ (0.44 C.G.S. unit) +													SEPTEMBER 1943													
	Hour G.M.T.																																						
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean														
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ														
1	1002	1010	1024	1050	1074	1074	1069	1078	1080	1091	1092	1091	1103	1111	1117	1124	1128	1146	1116	1093	1094	1093	1092	1082	1085														
2	1067	1061	1021	1022	1063	1074	1079	1085	1087	1092	1088	1097	1098	1111	1147	1125	1121	1127	1133	1127	1098	1092	1061	1055	1089														
3 d	1041	1027	1032	1055	1038	1037	1044	1061	1076	1090	1093	1109	1116	1126	1160	1154	1126	1129	1114	1112	1105	1051	1021	1061	1082														
4	1076	1073	1073	1074	1069	1066	1057	1060	1069	1081	1086	1093	1087	1090	1105	1104	1106	1127	1123	1102	1094	1095	1091	1087	1087														
5	1087	1075	1044	1027	1045	1067	1074	1081	1085	1086	1087	1096	1087	1087	1091	1100	1118	1122	1116	1112	1097	1086	1079	1052	1083														
6	1063	1061	1073	1076	1076	1078	1082	1085	1086	1087	1087	1087	1087	1091	1092	1092	1097	1102	1105	1098	1093	1092	1091	1090	1086														
7 q	1090	1084	1078	1085	1086	1088	1087	1088	1087	1085	1085	1082	1080	1082	1087	1088	1088	1090	1094	1093	1091	1097	1093	1090	1087														
8	1086	1076	1076	1079	1081	1084	1084	1080	1079	1076	1075	1073	1074	1080	1081	1080	1085	1109	1151	1121	1102	1084	1044	1039	1083														
9	1018	997	1040	1057	1050	1042	1060	1073	1074	1082	1085	1083	1083	1087	1097	1099	1098	1109	1115	1115	1103	1036	1030	1034	1069														
10	991	978	971	1003	1049	1069	1075	1083	1085	1087	1087	1093	1092	1092	1099	1124	1133	1114	1106	1096	1098	1087	1060	1067	1072														
11	1077	1056	1034	1028	1054	1069	1075	1078	1079	1081	1081	1080	1079	1087	1092	1096	1110	1108	1099	1094	1093	1091	1084	1074	1079														
12	1045	1042	1061	1071	1081	1085	1086	1090	1090	1084	1083	1084	1080	1079	1080	1084	1088	1102	1119	1098	1093	1083	1078	1080	1082														
13	1075	1068	1046	1015	1051	1061	1074	1076	1079	1079	1082	1084	1086	1092	1100	1109	1117	1117	1111	1092	1087	1088	1087	1085	1082														
14	1054	1063	1073	1076	1061	1067	1072	1074	1074	1074	1079	1076	1085	1094	1094	1091	1091	1091	1090	1096	1084	1080	1081	1061	1078														
15	1048	1067	1072	1072	1073	1074	1077	1082	1080	1084	1081	1078	1078	1083	1089	1097	1098	1100	1099	1097	1088	1087	1069	1054	1080														
16 q	1062	1075	1082	1085	1085	1085	1085	1081	1082	1079	1079	1076	1074	1076	1087	1097	1111	1098	1091	1091	1086	1082	1086	1078	1084														
17	1073	1073	1076	1076	1075	1073	1074	1076	1075	1076	1075	1071	1073	1078	1087	1091	1091	1091	1087	1090	1093	1092	1082	1068	1080														
18 q	1078	1083	1085	1085	1085	1085	1083	1081	1080	1078	1074	1067	1067	1075	1080	1081	1085	1087	1087	1091	1088	1077	1058	1046	1079														
19	1060	1069	1078	1081	1081	1081	1082	1082	1085	1079	1079	1079	1078	1080	1082	1086	1090	1091	1092	1090	1087	1087	1088	1087	1082														
20 q	1086	1086	1085	1085	1081	1080	1081	1082	1081	1079	1069	1067	1065	1067	1076	1079	1079	1080	1081	1081	1081	1088	1096	1074	1080														
21	1074	1062	1060	1070	1073	1075	1079	1073	1072	1067	1064	1073	1075	1076	1082	1082	1086	1091	1093	1106	1104	1096	1088	1085	1079														
22	1061	1043	1044	1057	1048	1061	1069	1075	1077	1079	1075	1074	1075	1081	1095	1105	1098	1104	1093	1092	1091	1091	1087	1075	1077														
23	1072	1064	1055	1056	1059	1068	1073	1075	1076	1080	1079	1075	1073	1073	1076	1081	1088	1089	1086	1086	1088	1082	1079	1076	1075														
24 q	1071	1066	1071	1076	1079	1080	1081	1081	1081	1079	1075	1073	1072	1072	1069	1075	1078	1084	1085	1086	1082	1080	1079	1079	1077														
25	1079	1080	1079	1078	1075	1072	1079	1074	1070	1075	1076	1076	1078	1084	1086	1087	1093	1092	1087	1085	1085	1085	1083	1082	1081														
26 d	1081	1080	1080	1075	1069	1063	1065	1066	1067	1073	1074	1075	1077	1086	1121	1147	1135	1145	1136	1126	1106	1069	1067	1068	1090														
27	1066	1026	1028	1010	1023	1032	1048	1062	1067	1075	1082	1091	1087	1085	1097	1104	1098	1101	1104	1089	1089	1061	1066	1055	1069														
28 d	985	1004	989	982	982	1021	1049	1064	1075	1091	1098	1099	1116	1142	1130	1133	1136	1136	1115	1106	1104	1082	1063	1070	1074														
29 d	1063	1042	1027	998	1011	1026	1056	1067	1079	1092	1102	1114	1157	1139	1165	1157	1175	1174	1165	1104	1102	1081	1044	1059	1092														
30 d	1068	1037	989	995	991	1016	1054	1073	1082	1092	1099	1123	1115	1103	1104	1124	1115	1106	1111	1079	1077	1046	1020	1012	1068														
Mean	1060	1054	1051	1053	1059	1065	1072	1076	1079	1082	1082	1085	1087	1090	1099	1103	1105	1109	1107	1098	1093	1081	1072	1067	1080														

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

137 ESKDALEMUIR												SEPTEMBER 1943							
TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.				
Horizontal force					Declination			Vertical force											
Maximum 16,000γ +		Minimum 16,000γ +		Range	Maximum 12° +		Minimum 12° +	Range	Maximum 44,000γ +		Minimum 44,000γ +					Range			
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ						
1	18 47	598	420	10 30	178	0 23	46.5	11.3	18 43	35.2	17 32	1159	970	0 46	189	4, 3, 2, 3, 4, 5, 5, 3	29	1	86.8
2	14 16	558	448	2 23	110	2 46	37.7	18.8	19 6	18.9	14 38	1151	1001	2 50	150	4, 4, 2, 3, 4, 3, 4, 4	28	1	87.0
3 d	21 20	615	415	11 28	200	22 10	42.2	18.6	17 27	23.6	14 14	1170	1015	1 45	155	4, 4, 3, 4, 5, 4, 2, 5	31	1	87.0
4	18 50	591	434	10 50	157	13 42	36.8	17.3	19 29	19.5	17 53	1131	1056	6 33	75	3, 4, 4, 3, 4, 4, 4, 2	28	1	87.0
5	20 13	569	437	11 28	132	3 36	39.4	19.7	20 10	19.7	17 9	1126	1020	3 45	106	3, 3, 2, 3, 3, 4, 4, 3	25	1	87.0
6	18 29	535	469	11 14	66	14 5	35.3	23.4	0 1	11.9	18 16	1109	1058	1 0	51	3, 2, 2, 2, 1, 3, 2, 0	15	0	87.0
7 q	20 37	545	484	12 10	61	13 31	37.1	26.8	9 12	10.3	18 52	1097	1074	2 10	23	3, 2, 1, 1, 2, 2, 2, 2	15	0	87.3
8	17 30	582	465	18 15	117	14 20	38.7	6.2	21 35	32.5	18 24	1163	1036	23 32	127	3, 2, 2, 3, 3, 4, 5, 5	27	1	87.4
9	21 4	625	426	0 26	199	21 13	42.2	12.1	23 28	30.1	19 16	1121	966	0 58	155	5, 4, 3, 3, 4, 4, 3, 5	31	1	87.4
10	21 35	571	418	10 43	153	12 13	37.6	16.8	1 27	20.8	16 18	1140	961	1 13	179	4, 4, 2, 4, 4, 4, 3, 4	29	1	87.3
11	21 5	554	461	14 0	93	13 33	39.9	12.8	22 25	27.1	16 39	1114	1026	3 27	88	4, 3, 3, 3, 4, 4, 3, 4	28	1	87.2
12	19 4	570	438	9 51	132	13 19	36.8	14.2	18 50	22.6	18 50	1122	1035	1 0	87	3, 2, 1, 3, 2, 3, 4, 3	21	1	87.3
13	18 59	574	445	3 0	129	11 25	40.3	12.6	18 49	27.7	16 10	1123	1001	3 20	122	4, 4, 3, 3, 3, 4, 4, 3	28	1	87.4
14	0 8	566	449	10 47	117	11 21	39.4	10.5	19 27	28.9	19 22	1101	1040	24 0	61	4, 3, 2, 3, 3, 3, 4, 4	26	1	87.3
15	22 23	555	477	11 1	78	22 46	38.6	20.5	19 12	18.1	17 56	1103	1039	0 6	64	3, 2, 2, 2, 3, 3, 3, 3	21	1	87.4
16 q	20 38	561	469	16 6	92	13 9	36.7	23.4	20 37	13.3	16 19	1114	1058	0 12	56	3, 2, 2, 2, 3, 4, 3, 3	22	1	87.3
17	19 10	545	488	10 37	57	13 28	36.6	22.3	2 37	14.3	20 11	1096	1069	5 10	27	2, 3, 2, 2, 2, 3, 2, 3	19	0	87.3
18 q	21 40	586	472	23 3	114	13 28	32.7	12.3	23 15	20.4	19 20	1092	1044	23 36	48	1, 1, 1, 2, 2, 1, 2, 5	15	0	87.3
19	22 43	539	469	10 40	70	13 10	35.0	19.8	0 1	15.2	18 30	1094	1050	0 1	44	3, 3, 3, 2, 2, 2, 2, 2	19	0	87.3
20 q	23 10	556	488	11 29	68	14 22	39.8	23.2	22 22	16.6	22 30	1097	1064	12 30	33	2, 1, 1, 2, 3, 3, 2, 3	17	0	87.2
21	1 28	559	438	11 37	121	13 2	38.9	17.2	19 53	21.7	20 4	1112	1055	2 21	57	3, 2, 3, 4, 3, 3, 4, 3	25	1	87.2
22	14 24	555	476	4 15	79	12 57	41.0	21.1	17 24	19.9	15 12	1110	1038	1 50	72	4, 3, 3, 2, 4, 3, 3, 3	25	1	87.3
23	21 43	546	460	10 3	86	1 39	36.7	23.1	22 16	13.6	17 4	1091	1049	2 10	42	3, 3, 2, 3, 2, 3, 2, 3	21	1	87.2
24 q	20 21	559	492	11 43	67	12 27	35.3	25.4	20 50	9.9	20 6	1087	1062	1 5	25	3, 2, 2, 2, 2, 2, 3, 1	17	0	87.2
25	5 56	558	465	12 39	93	13 25	38.7	26.6	6 32	12.1	16 45	1097	1068	8 0	29	1, 2, 3, 3, 3, 3, 1, 2	18	1	87.0
26 d	21 0	609	430	14 39	179	15 0	44.8	8.6	20 58	36.2	15 5	1168	1062	5 50	106	1, 2, 3, 3, 5, 4, 5, 5	28	1	87.0
27	18 59	597	462	10 57	135	1 5	43.1	2.5	19 0	40.6	18 23	1112	1003	3 26	109	4, 3, 3, 3, 4, 3, 5, 4	29	1	87.0
28 d	21 40	599	414	12 29	185	0 10	42.1	6.8	21 35	35.3	13 12	1148	976	3 32	172	5, 4, 3, 3, 4, 4, 4, 5	32	1	86.9
29 d	19 20	570	408	11 40	162	12 3	45.5	-4.8	19 4	50.3	17 59	1194	995	3 44	199	3, 4, 4, 3, 5, 4, 5, 5	33	2	86.9
30 d	18 35	597	367	11 41	230	2 48	43.2	2.3	21 28	40.9	11 46	1139	1036	2 40	103	4, 5, 3, 5, 4, 3, 5, 6	35	2	86.9
Mean	- -	571	449	- -	122	- -	39.3	15.7	- -	23.6	- -	1123	1031	- -	92	3.1	24.6	0.83	87.2

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

138 ESKDALEMUIR (H)												16,000γ (0.16 C.G.S. unit) +												OCTOBER 1943												
	Hour G.M.T.																																			
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ											
1 d	464	492	519	519	496	527	496	498	481	466	448	471	484	491	475	508	496	503	510	518	538	515	511	491	497											
2 d	502	473	491	510	523	520	491	502	499	476	451	481	505	471	509	496	526	500	539	488	496	508	499	500	498											
3 d	514	527	498	491	494	511	511	469	457	433	441	461	494	495	507	503	519	506	498	530	526	569	501	468	497											
4	491	504	492	516	514	515	498	512	503	466	456	465	478	483	503	501	509	519	516	518	523	530	538	519	503											
5	511	507	514	523	520	518	514	516	511	495	489	491	496	511	512	518	518	519	515	530	522	516	521	531	513											
6 q	520	517	523	514	518	523	526	522	511	496	487	495	500	506	505	511	514	520	522	525	525	526	526	525	515											
7	526	523	523	518	524	532	534	530	523	514	512	503	519	519	492	497	514	519	516	516	518	522	530	499	518											
8	538	500	507	515	516	515	514	507	511	497	501	463	476	505	519	523	512	514	518	514	510	509	495	514	508											
9 d	526	516	516	517	480	509	507	435	471	486	486	474	498	494	512	496	524	539	504	508	563	514	534	514	505											
10	520	516	505	514	514	519	526	507	495	497	492	495	503	503	499	523	501	506	514	518	518	519	518	519	510											
11	514	514	516	516	519	518	514	511	499	488	483	484	483	507	515	519	519	515	519	516	537	528	518	533	512											
12	526	516	526	530	530	515	516	507	510	499	495	498	499	503	507	512	514	509	521	546	522	518	531	518	515											
13	518	512	512	522	521	521	520	517	512	502	498	499	504	499	511	519	519	520	523	526	525	527	522	516	515											
14 q	518	518	518	519	519	519	519	515	510	502	499	506	514	520	522	522	522	522	518	525	526	530	526	523	518											
15 q	520	521	521	523	522	525	525	522	515	504	505	515	522	523	523	522	524	525	527	529	525	526	523	525	521											
16 q	526	522	524	526	529	529	528	527	521	510	506	511	521	527	524	518	520	524	526	529	530	542	541	526	524											
17	526	525	529	533	532	538	530	513	510	503	506	497	494	504	514	513	514	518	517	517	511	537	524	519	518											
18 q	520	520	519	525	525	523	522	518	513	506	506	509	513	518	514	520	525	517	510	521	528	525	533	537	519											
19	518	525	517	517	522	530	532	522	510	495	495	499	503	521	522	532	533	533	532	531	532	528	529	529	521											
20	528	529	532	532	530	533	529	524	519	511	506	513	521	529	530	518	517	515	501	518	520	537	536	518	523											
21	529	525	514	513	515	517	516	517	511	503	499	501	507	514	520	518	519	524	524	525	521	522	521	523	517											
22	521	525	522	520	516	522	529	543	536	521	509	470	479	496	510	505	506	491	521	516	515	506	517	518	513											
23	539	520	522	514	517	517	518	515	505	509	504	500	502	505	499	513	518	520	522	519	513	517	513	518	514											
24	524	536	527	525	517	518	527	534	524	483	419	501	455	499	471	504	477	490	500	501	529	527	509	514	505											
25	528	465	424	504	500	504	504	501	499	481	493	490	481	500	499	500	503	486	506	536	537	513	510	520	499											
26 d	510	544	510	503	509	505	459	486	451	464	453	478	484	498	513	493	486	525	508	492	549	525	510	517	499											
27	517	499	514	515	490	513	498	478	488	495	483	492	500	500	500	506	499	517	522	513	495	510	490	497	501											
28	506	470	486	541	502	504	510	502	500	483	486	494	498	493	502	503	494	510	537	504	552	534	529	511	506											
29	495	483	494	507	500	521	519	514	491	482	496	467	463	492	470	494	491	493	528	527	496	521	520	516	499											
30	511	510	515	506	525	533	498	513	511	494	482	485	494	480	483	505	504	516	499	529	514	517	513	517	506											
31	517	521	506	517	529	510	502	515	502	494	481	467	496	506	514	511	512	483	495	539	533	491	512	522	507											
Mean	517	512	511	518	515	519	514	509	503	492	486	489	496	504	506	510	511	513	516	520	524	523	519	516	510											

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

139 ESKDALEMUIR (D)												12° +												OCTOBER 1943												
	Hour G.M.T.																																			
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
1 d	22.5	31.7	29.2	29.4	34.0	31.2	30.1	29.2	28.9	28.7	31.5	33.0	35.1	32.2	25.3	29.3	32.1	28.8	30.2	23.2	21.2	26.1	27.6	34.5	29.4											
2 d	20.5	22.1	22.2	24.2	26.7	27.4	32.3	29.4	27.9	29.7	30.1	32.2	34.9	33.0	33.1	35.0	18.3	27.6	11.3	30.1	22.4	24.2	25.6	37.4	27.4											
3 d	27.7	25.5	26.3	27.3	30.4	31.2	33.1	31.1	34.9	31.3	33.3	35.0	34.9	34.6	28.6	30.3	18.6	25.5	27.6	25.6	24.8	23.0	21.3	23.4	28.6											
4	31.7	27.2	35.7	28.6	27.7	30.2	32.1	27.8	26.9	27.3	29.1	31.7	33.8	32.6	32.4	33.9	24.8	29.1	30.0	29.9	27.7	27.6	27.8	27.6	29.7											
5	27.8	33.5	29.9	28.4	27.5	29.1	28.9	27.8	26.4	27.3	28.7	30.7	33.0	33.5	32.7	31.6	30.5	30.1	27.4	21.2	24.5	28.6	28.6	30.1	29.1											
6 q	30.3	28.4	27.4	26.6	28.7	29.0	28.7	27.5	27.0	28.5	30.1	33.5	34.9	34.8	33.5	33.0	30.5	29.5	29.0	29.4	29.3	29.0	28.7	28.2	29.8											
7	27.9	29.0	19.9	25.5	27.8	27.8	27.2	25.9	25.2	26.2	29.5	31.1	36.3	39.3	40.4	38.4	33.4	33.2	32.1	30.2	26.8	26.5	18.8	19.8	29.1											
8	20.0	20.8	28.1	28.6	27.4	27.6	27.6	26.3	25.9	27.1	32.0	35.7	38.4	36.8	35.0	35.3	35.0	30.6	31.4	25.9	23.0	23.0	23.2	24.8	28.7											
9 d	25.0	26.8	24.5	26.7	28.5	29.6	31.2	37.6	42.1	33.2	33.3	34.4	34.8	35.5	34.3	34.1	21.2	22.4	27.8	25.1	29.5	22.7	21.9	25.5	29.5											
10	31.3	26.7	26.5	27.5	26.9	27.7	27.9	27.8	25.7	26.7	29.9	32.7	33.6	35.2	30.3	30.1	16.7	26.1	30.7	30.0	29.6	29.2	26.1	27.0	28.4											
11	27.5	28.7	29.2	28.6	28.1	27.8	27.7	28.1	27.5	27.0	28.6	31.5	30.9	31.9	32.0	30.9	29.8	29.7	28.9	28.4	22.2	24.6	28.1	30.2	28.7											
12	27.9	25.9	26.8	26.8	25.1	29.3	28.8	29.7	29.5	28.5	29.5	30.6	31.3	31.7	31.3	30.7	29.9	28.7	27.9	25.4	26.6	27.5	30.9	28.7	28.7											
13	27.8	26.8	27.6	28.4	26.6	27.0	26.9	26.7	26.1	26.7	28.7	31.5	33.6	33.5	32.0	30.8	30.2	30.2	29.6	29.7	29.5	29.4	28.9	26.3	28.9											
14 q	27.4	29.4	27.7	27.6	27.9	27.7	27.6	26.6	26.1	26.7	28.9	31.6	32.9	32.6	31.5	30.4	29.9	29.1	28.7	28.5	27.0	28.5	28.4	28.3	28.8											
15 q	28.1	28.4	28.1	28.1	28.7	28.6	28.1	27.3	26.2	26.1	28.3	31.8	32.4	33.1	32.2	31.1	30.3	30.1	29.5	29.5	29.1	28.7	28.8	28.5	29.2											
16 q	28.3	27.9	29.3	29.5	29.1	28.8	28.1	28.0	27.0	26.9	28.9	31.7	33.4	33.0	32.4	30.9	29.9	29.9	30.4	29.6	29.6	25.9	24.5	27.9	29.2											
17	27.8	28.1	28.1	28.5	29.6	29.5	28.1	29.1	31.4	28.6	29.5	33.0	36.4	35.6	32.7	31.8	31.2	30.4	29.9	28.5	25.8	27.4	25.5	28.0	29.8											
18 q	28.4	27.8	28.1	29.2	28.8	28.6	27.9	27.1	26.5	27.5	29.6	32.4	33.2	33.3	31.9	30.6	30.9	29.5	30.2	30.3	29.8	28.4	26.2	29.3	29.4											
19	27.7	27.7	26.4	29.1	28.9	28.5	27.3	27.3	27.7	28.7	30.3	32.0	33.4	34.1	35.1	31.8	30.5	30.6	29.9	29.5	29.5	28.6	28.6	28.0	29.6											
20	27.9	27.8	27.7	27.0	28.1	28.1	27.7	27.0	26.3	26.4	27.6	30.9	31.6	31.7	31.8	32.1	31.5	28.9	15.5	28.5	28.1	27.6	28.7	25.1	28.1											
21	28.3	24.8	23.5	26.0	26.7	26.6	26.9	27.7	27.1	27.5	29.6	32.0	32.6	31.5	30.3	29.2	27.7	28.5	28.5	28.6	28.5	28.5	28.5	28.5	28.3											
22	28.3	28.7	27.0	26.9	26.5	26.8	26.8	30.0	29.1	28.8	31.1	32.2	35.7	35.7	34.5	33.3	22.0	26.1	23.9	28.8	18.6	22.9	29.2	28.3												
23	28.6	23.1	24.3	27.4	27.9	26.8	27.0	27.0	26.8	27.9	30.5	32.1	33.5	33.0	31.2	30.2	29.5	28.5	28.5	27.7	26.5	22.2	25.7	25.9	28.0											
24	24.1	23.0	18.6	25.4	25.4	26.5	28.3	29.2	29.4	28.5	37.7	37.5	38.7	40.5	31.9	32.1	27.5	21.6	28.1	24.2	26.8	24.7	21.7	24.0	28.1											
25	23.6	34.7	30.7	24.2	28.5	29.2	29.6	36.9	36.6	36.8	33.2	33.5	31.1	30.9	30.3	30.7	29.4	25.3	18.3	11.6	19.4	17.5	25.7	25.9	28.1											
26 d	29.9	33.2	19.6	25.9	33.2	41.9	43.8	36.1	36.8	39.1	35.1	32.1	35.8	39.4	28.4	33.5	28.7	17.9	20.5	21.4	24.5	25.5	25.2	32.2	30.8											
27	27.5	30.8	31.9	27.4	28.5	29.5	30.6	34.1	35.1	32.0	30.8	31.3	31.9	31.0	30.6	29.6	29.1	27.0	11.5	20.4	17.8	10.6	25.7	28.6	27.6											
28	16.4	26.5	27.5	26.9	24.2	35.9	29.1	30.3	29.1	28.0	28.0	31.2	31.3	30.0	30.4	21.6	28.1	14.5	14.9	21.4	23.9	28.4	24.9	25.9	26.2											
29	28.8	36.7	29.0	29.2	28.2	30.3	31.1	29.9	29.5	29.6	30.9	34.0	32.2	35.9	26.0	28.4	20.6	25.7	9.5	15.9	21.8	25.9	29.9	26.6	27.7											
30	27.5	27.9	36.0	27.6	26.4	29.0	29.9	29.4	27.7	28.4	31.2	32.0	32.3	31.0	31.3	30.2	26.0	22.6	19.4	21.2	24.1	22.4	30.1	26.3	27.9											
31	27.5	27.5	29.4	39.0	34.0	29.9	26.6	27.4	26.8	30.3	31.5	33.6	31.8	32.5	32.2	30.3	28.1	25.7	24.7	18.1	20.3	22.0	28.5	25.5	28.5											
Mean	26.9	28.0	27.3	27.8	28.3	29.3	29.3	29.2	29.0	28.9	30.5	32.5	33.7	33.9	31.8	31.3	27.8	27.2	25.3	25.7	25.7	25.3	26.3	27.7	28.7											

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

101

140 ESKDALEMUIR (V)		44,000γ (0.44 C.G.S. unit) +											OCTOBER 1943													
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
1 d	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2 d	1027	1002	1038	1050	1034	1049	1069	1078	1079	1085	1087	1087	1094	1109	1148	1142	1138	1130	1110	1099	1081	1075	1074	1026		1080
3 d	1034	979	1009	1055	1068	1068	1074	1079	1083	1087	1093	1092	1093	1115	1129	1129	1145	1150	1121	1097	1091	1082	1076	1047		1083
4	1025	1018	1019	1042	1058	1061	1068	1081	1086	1091	1105	1093	1091	1105	1129	1128	1148	1133	1120	1099	1083	1058	1043	1024		1079
5	1015	1022	1017	1043	1069	1075	1079	1081	1083	1085	1087	1087	1092	1108	1110	1114	1123	1109	1099	1097	1095	1090	1079	1078		1081
6 q	1076	1056	1052	1068	1075	1080	1085	1087	1088	1087	1081	1076	1079	1083	1087	1091	1092	1092	1097	1096	1087	1086	1086	1081		1082
7	1071	1072	1075	1080	1082	1083	1085	1087	1090	1088	1086	1080	1079	1083	1086	1091	1092	1093	1092	1090	1088	1088	1088	1087		1085
8	1086	1079	1073	1075	1079	1080	1081	1085	1085	1082	1076	1076	1077	1084	1091	1092	1095	1104	1111	1113	1109	1105	1082	1086		1088
9 d	1051	1063	1075	1079	1085	1086	1086	1086	1085	1081	1076	1081	1082	1086	1084	1092	1115	1121	1116	1123	1116	1103	1082	1063		1088
10	1052	1049	1059	1070	1048	1056	1068	1074	1062	1074	1077	1090	1093	1097	1103	1104	1117	1111	1109	1106	1062	1069	1073	1071		1079
11	1069	1074	1079	1081	1082	1084	1080	1082	1090	1087	1082	1081	1082	1095	1106	1115	1130	1114	1098	1093	1093	1092	1092	1091		1091
12	1090	1088	1087	1087	1087	1088	1091	1091	1091	1091	1090	1087	1091	1088	1090	1091	1091	1091	1092	1096	1086	1074	1082	1081		1088
13	1074	1075	1072	1074	1069	1068	1073	1079	1081	1085	1084	1081	1082	1084	1087	1089	1093	1097	1093	1085	1076	1084	1073	1066		1080
14 q	1070	1080	1081	1074	1078	1080	1081	1083	1085	1085	1080	1074	1074	1081	1088	1090	1092	1087	1086	1086	1087	1086	1086	1090		1083
15 q	1087	1083	1085	1087	1086	1086	1085	1085	1085	1081	1075	1070	1069	1075	1080	1080	1086	1086	1087	1086	1085	1083	1085	1086		1083
16 q	1088	1088	1087	1086	1085	1084	1082	1082	1085	1081	1072	1067	1067	1069	1076	1083	1085	1085	1085	1082	1085	1085	1085	1086		1082
17	1085	1085	1085	1084	1081	1081	1080	1080	1081	1078	1070	1068	1069	1075	1082	1087	1087	1086	1086	1086	1085	1084	1078	1080		1081
18 q	1082	1084	1083	1081	1080	1077	1078	1079	1076	1074	1067	1069	1078	1081	1086	1091	1093	1091	1091	1093	1096	1088	1078	1081		1082
19	1085	1085	1086	1085	1085	1085	1085	1086	1085	1079	1074	1070	1074	1077	1081	1086	1087	1092	1097	1092	1089	1090	1085	1078		1084
20	1070	1069	1077	1078	1074	1075	1079	1080	1081	1082	1081	1079	1083	1085	1085	1084	1085	1085	1085	1085	1083	1085	1085	1085		1081
21	1085	1084	1082	1081	1080	1079	1080	1081	1081	1081	1079	1074	1075	1079	1085	1091	1094	1104	1133	1103	1093	1088	1069	1074		1086
22	1058	1046	1060	1069	1076	1080	1081	1080	1081	1081	1075	1075	1078	1081	1085	1087	1087	1086	1086	1086	1086	1086	1085	1085		1078
23	1085	1084	1081	1081	1082	1081	1079	1074	1074	1075	1070	1078	1085	1090	1092	1109	1132	1127	1104	1093	1091	1094	1085	1076		1088
24	1027	1032	1037	1046	1055	1067	1074	1078	1081	1081	1078	1078	1079	1084	1094	1091	1088	1087	1087	1088	1091	1093	1091	1076		1074
25	1074	1060	1060	1059	1066	1070	1072	1074	1075	1084	1088	1081	1090	1097	1139	1133	1134	1130	1111	1109	1063	1044	1052	1049		1084
26 d	1031	985	995	1019	1043	1064	1073	1073	1075	1070	1083	1090	1107	1109	1104	1104	1103	1112	1112	1098	1069	1069	1075	1071		1072
27	1057	1021	1037	1035	1021	1010	1020	1039	1061	1071	1081	1105	1109	1145	1172	1136	1124	1116	1104	1101	1097	1063	1066	1043		1076
28	1049	1050	1055	1064	1058	1067	1073	1076	1075	1076	1086	1088	1091	1091	1093	1098	1104	1103	1108	1093	1093	1061	1054	1014		1076
29	1021	995	982	978	1001	1020	1048	1067	1074	1084	1084	1085	1097	1103	1120	1151	1122	1118	1100	1096	1076	1046	1048	1050		1065
30	1056	1007	1015	1045	1064	1071	1072	1075	1084	1090	1082	1089	1111	1106	1128	1139	1146	1130	1123	1084	1086	1068	1043	1060		1082
31	1074	1076	1034	1043	1067	1067	1075	1075	1083	1086	1087	1092	1109	1135	1130	1111	1112	1111	1109	1095	1081	1079	1046	1068		1085
Mean	1081	1084	1078	1034	1007	1023	1055	1067	1075	1080	1086	1097	1105	1109	1105	1104	1104	1118	1121	1106	1069	1076	1063	1071		1080
Mean	1062	1054	1057	1062	1065	1069	1075	1078	1081	1082	1081	1082	1087	1094	1102	1104	1108	1106	1102	1095	1086	1080	1074	1069		1081

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

141 ESKDALEMUIR														OCTOBER 1943				
	TERRESTRIAL MAGNETIC ELEMENTS													3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.	
	Horizontal force					Declination					Vertical force							
	Maximum 16,000γ +	Minimum 16,000γ +	Range	Maximum 12° +	Minimum 12° +	Range	Maximum 44,000γ +	Minimum 44,000γ +	Range									
1 d	h. m. γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	4, 4, 3, 3, 4, 4, 5, 5	32	1	86.9
2 d	20 0 601	437 10 2	164	23 23 43.0	4.7 19 55	38.3	14 40 1156	989 1 16	167	193	5, 3, 3, 4, 4, 5, 5, 4	33	2	86.9				
3 d	18 31 615	436 10 3	179	23 43 46.1	-2.9 18 21	49.0	16 4 1158	965 1 36	193	166	4, 3, 4, 4, 3, 5, 4, 5	32	1	86.9				
4	21 14 600	397 9 49	203	12 56 40.1	5.5 16 42	34.6	16 40 1170	1004 1 54	166	116	4, 3, 3, 3, 3, 3, 2, 3	24	1	86.9				
5	22 35 557	442 9 40	115	2 32 38.4	20.2 16 43	18.2	16 45 1126	1010 0 11	116	49	3, 2, 1, 1, 2, 2, 3, 2	16	0	86.5				
6 q	19 46 554	476 11 10	78	1 27 35.9	17.9 19 39	18.0	18 38 1098	1049 2 0	49	26	2, 2, 1, 1, 2, 1, 0, 1	10	0	86.5				
7	22 33 530	484 10 35	46	12 25 35.6	25.0 3 9	10.6	17 0 1094	1068 1 0	26	53	3, 2, 1, 2, 4, 3, 2, 4	21	1	86.5				
8	22 23 554	464 14 42	90	13 59 42.2	11.4 22 57	30.8	19 0 1117	1064 2 2	53	96	4, 2, 2, 4, 4, 3, 3, 4	26	1	86.5				
9 d	0 16 566	417 11 50	149	12 46 40.6	13.7 0 50	26.9	17 5 1135	1039 0 34	96	91	3, 4, 5, 3, 3, 5, 5, 3	31	1	86.5				
10	20 12 619	425 7 54	194	8 6 46.5	7.7 16 49	38.8	16 41 1128	1037 4 53	91	74	2, 2, 3, 2, 3, 5, 2, 2	21	1	86.5				
11	16 43 564	424 16 23	140	13 21 36.6	1.3 16 35	35.3	16 32 1142	1068 0 10	74	28	2, 1, 2, 3, 3, 2, 3, 3	19	1	86.4				
12	21 7 564	467 12 10	97	11 32 33.4	18.6 20 10	14.8	19 16 1097	1069 21 11	28	33	3, 3, 2, 2, 1, 2, 4, 3	20	1	86.4				
13	19 43 584	487 10 50	97	22 23 32.7	21.5 19 0	11.2	18 1 1097	1064 24 0	33	29	2, 2, 1, 2, 2, 2, 1, 2	14	0	86.4				
14 q	0 16 537	488 13 22	49	12 47 35.0	25.2 23 19	9.8	16 29 1093	1064 0 1	29	23	2, 0, 1, 2, 2, 2, 3, 2	14	0	86.2				
15 q	21 33 541	499 10 30	42	12 6 34.2	23.3 20 15	10.9	19 10 1091	1068 12 10	23	24	1, 0, 0, 2, 2, 1, 0, 0	6	0	86.1				
16 q	12 46 534	498 10 0	36	12 58 34.9	25.8 9 5	9.1	0 55 1089	1065 12 0	24	21	1, 1, 1, 2, 3, 1, 1, 3	13	0	86.1				
17	22 10 563	505 10 55	58	12 37 34.2	22.3 22 9	11.9	16 3 1088	1067 11 30	21	35	1, 2, 2, 3, 2, 2, 2, 3	17	0	86.1				
18 q	21 53 568	479 12 11	89	12 52 38.6	22.4 21 47	16.2	20 30 1098	1063 10 55	35	34	1, 0, 0, 2, 2, 3, 2, 3	13	0	86.1				
19	23 38 568	502 10 27	66	13 37 33.9	24.4 22 56	9.5	18 10 1100	1066 24 0	34	20	3, 2, 2, 2, 2, 2, 2, 0	15	0	86.0				
20	20 5 542	490 10 5	52	14 28 35.9	24.3 0 27	11.6	21 7 1086	1066 0 1	20	104	1, 1, 1, 2, 2, 3, 5, 4	19	1	86.0				
21	21 59 576	459 18 20	117	15 40 33.3	8.1 18 36	25.2	18 16 1141	1037 22 45	104	43	4, 2, 2, 1, 1, 1, 0, 1	12	0	85.9				
22	0 15 537	494 10 46	43	11 56 33.1	14.7 2 8	18.4	15 10 1087	1044 1 8	43	80	1, 1, 3, 4, 3, 4, 3, 4	23	1	85.9				
23	18 6 553	455 17 41	98	13 20 37.1	11.6 21 57	25.5	16 5 1140	1060 24 0	80	77	4, 2, 1, 2, 3, 1, 2, 3	18	0	85.8				
24	0 32 565	478 14 1	87	0 7 35.6	19.7 21 49	15.9	14 38 1098	1021 0 32	77	120	3, 2, 2, 5, 4, 4, 5, 4	29	1	85.8				
25	20 22 595	392 10 12	203	13 59 44.1	7.8 17 1	36.3	14 35 1150	1030 21 5	120	154	5, 4, 4, 2, 4, 4, 5, 4	32	1	85.8				
26 d	19 39 600	426 1 38	174	1 27 41.6	-0.3 19 36	41.9	12 49 1121	967 1 42	154	196	4, 5, 4, 4, 4, 4, 5, 3	33	2	85.8				
27	20 18 605	420 8 59	185	6 30 51.3	13.7 17 30	37.6	14 7 1198	1002 5 22	196	169	3, 3, 4, 3, 2, 3, 5, 5	28	1	85.8				
28	18 42 592	459 7 20	133	8 16 37.5	-2.5 21 5	40.0	18 20 1175	1006 23 33	169	207	4, 4, 3, 3, 3, 5, 4, 4	30	1	85.6				
29	20 49 596	447 7 14	149	5 22 38.8	3.7 17 59	35.1	15 20 1172	965 3 8	207	155	4, 3, 3, 4, 4, 3, 6, 3	30	1	85.5				
30	18 52 632	439 12 5	193	1 27 39.1	-3.4 18 48	42.5	16 38 1150	995 1 58	155	126	4, 3, 3, 3, 5, 3, 4, 4	29	1	85.5				
31	21 54 572	426 14 0	146	2 49 40.4	14.4 18 39	26.0	13 57 1151	1025 3 10	126	141	3, 4, 3, 4, 4, 4, 5, 3	30	2	85.5				
31	19 50 626	421 11 50	205	3 48 43.6	6.3 19 45	37.3	12 27 1144	1003 4 16	141	92	2.7	22.3	0.74	86.2				
Mean	- - 575	456 - -	119	- - 38.5	13.1 - -	25.4	- - 1125	1033 - -	92									

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

142 ESKDALEMUIR (H)												16,000γ (0.16 C.G.S. unit) +												NOVEMBER 1943																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

143 ESKDALEMUIR (D)												12° +												NOVEMBER 1943																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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144	ESKDALEMUIR (V)												44,000γ (0.44 C.G.S. unit) +												NOVEMBER 1943																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

145 ESKDALEMUIR														NOVEMBER 1943						
	TERRESTRIAL MAGNETIC ELEMENTS													3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.			
	Horizontal force				Declination			Vertical force												
	Maximum 16,000γ +		Minimum 16,000γ +		Range	Maximum 12° +		Minimum 12° +	Range	Maximum 44,000γ +		Minimum 44,000γ +						Range		
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ						
1	18 27	608	436	10 50	172	12 12	37.4	8.9	18 23	28.5	13 52	1145	1038	1 40	107	3, 2, 3, 3, 4, 4, 5, 3	27	1	85.4	
2	17 20	527	488	9 22	39	13 3	32.4	24.1	17 0	8.3	17 9	1101	1074	1 40	27	2, 1, 1, 2, 1, 2, 2, 1	12	0	85.4	
3	22 42	566	501	10 47	65	13 5	31.8	21.7	22 39	10.1	15 50	1097	1079	23 0	18	1, 1, 1, 1, 1, 0, 1, 3	9	0	85.4	
4	5 29	541	510	11 48	31	13 18	34.4	20.6	23 18	13.8	23 10	1097	1081	0 40	16	1, 2, 0, 1, 2, 1, 1, 2	10	0	85.4	
5	6 3	551	491	14 54	60	12 57	39.0	21.7	5 31	17.3	20 39	1103	1074	7 40	29	2, 3, 2, 2, 3, 3, 2, 2	19	1	85.3	
6	22 37	588	425	17 20	163	15 34	36.7	17.3	17 40	54.0	17 40	1223	1043	22 53	180	2, 3, 2, 2, 3, 6, 4, 4	26	1	85.3	
7	20 41	551	484	8 28	67	1 27	33.2	13.2	20 25	20.0	20 24	1112	1051	1 49	61	3, 2, 3, 2, 2, 2, 4, 3	21	1	85.3	
8	22 20	541	487	9 10	54	11 10	32.5	19.9	21 21	12.6	20 40	1095	1068	1 20	27	2, 2, 3, 3, 2, 2, 2, 3	19	1	85.2	
9	23 10	563	495	6 45	68	12 8	33.0	24.2	19 55	8.8	15 28	1094	1068	2 56	26	3, 2, 3, 1, 1, 1, 2, 3	16	0	85.2	
10	20 6	562	491	21 1	71	12 5	32.4	10.6	20 27	21.8	19 41	1105	1075	0 1	30	2, 1, 1, 1, 2, 2, 4, 3	16	1	85.2	
11 q	5 9	534	503	10 26	31	12 45	31.3	25.7	19 28	5.6	14 40	1093	1084	0 1	9	1, 2, 1, 1, 1, 0, 1, 1	8	0	85.2	
12	6 55	538	495	12 0	43	13 28	35.8	25.5	19 15	10.3	19 30	1093	1079	10 20	14	0, 0, 0, 2, 2, 2, 1, 1	8	0	85.1	
13 q	21 41	535	505	10 45	30	13 48	32.7	20.5	22 9	12.2	19 57	1094	1080	10 33	14	0, 0, 0, 1, 0, 2, 2, 2	7	0	85.0	
14 q	15 7	534	510	19 6	24	12 13	31.5	23.2	19 10	8.3	18 15	1094	1080	10 40	14	1, 1, 1, 0, 1, 2, 2, 1	9	0	84.9	
15 q	18 38	549	518	12 18	31	12 49	32.3	26.8	22 55	5.5	20 55	1087	1079	9 55	8	0, 1, 0, 0, 2, 1, 2, 2	8	0	84.9	
16	4 51	563	495	19 40	68	14 8	35.8	15.2	21 37	20.6	19 58	1105	1060	3 58	45	2, 3, 2, 2, 3, 2, 3, 3	20	1	84.9	
17 q	21 34	534	511	10 20	23	12 55	31.8	26.1	23 54	5.7	17 40	1087	1078	10 12	9	1, 0, 0, 0, 1, 0, 1, 1	4	0	84.9	
18	7 54	546	481	17 46	65	13 30	33.1	25.9	19 39	7.2	18 4	1104	1074	11 37	30	1, 1, 2, 1, 3, 3, 3, 1	15	1	84.8	
19 d	23 16	649	377	11 54	272	9 31	41.1	-0.3	23 13	41.4	12 38	1151	1030	23 42	121	1, 3, 5, 5, 4, 4, 6	33	2	84.8	
20 d	3 11	556	416	15 43	140	7 22	39.0	-2.0	16 18	41.0	16 0	1134	1032	3 19	102	4, 4, 3, 4, 4, 5, 5, 3	32	1	84.7	
21	19 51	570	428	13 51	142	5 37	36.8	4.5	16 37) 19 46)	32.3	16 31	1163	1031	1 0	132	4, 4, 3, 4, 4, 5, 5, 4	33	1	84.8	
22	19 57	564	462	16 29	102	5 9	36.6	1.4	16 31	35.2	16 43	1135	1055	0 1	80	3, 3, 3, 3, 3, 5, 4, 3	27	1	84.7	
23	17 1	603	334	21 44	269	15 0	35.8	-3.8	20 38	39.6	16 48	1147	990	22 3	157	2, 3, 3, 3, 4, 5, 6, 6	32	2	84.7	
24	21 6	575	420	13 47	155	0 59	37.2	-1.9	18 18	39.1	14 19	1156	1008	1 31	148	4, 3, 2, 3, 4, 4, 5, 5	30	1	84.7	
25 d	17 17	580	415	20 3	165	11 48	37.7	-7.4	18 59	45.1	16 55	1158	1043	23 38	115	3, 3, 3, 3, 4, 5, 5, 5	31	1	84.6	
26 d	20 26	610	420	14 12	190	20 43	45.8	14.1	20 17	31.7	15 16	1192	937	24 0	255	2, 3, 3, 3, 4, 5, 6, 5	31	2	84.7	
27 d	20 28	580	435	12 48	145	6 52	41.9	14.6	21 0	27.3	12 55	1126	961	0 6	165	4, 5, 4, 3, 4, 2, 5, 4	31	1	84.6	
28	18 45	538	442	10 39	96	10 39	37.0	5.8	18 35	31.2	18 31	1110	1049	0 1	61	3, 2, 3, 4, 2, 2, 4, 3	23	1	84.5	
29	19 49	576	439	13 14	137	5 43	39.7	11.4	18 11	28.3	18 18	1131	1054	3 37	77	4, 3, 3, 3, 3, 3, 5, 2	26	1	84.6	
30	2 13	527	463	16 0	64	15 12	32.3	23.1	16 17	9.2	16 14	1127	1082	2 23	45	2, 1, 1, 1, 2, 3, 1, 1	12	0	84.5	
Mean	-	-	562	462	-	-	35.6	13.2	-	-	22.4	-	-	1122	1051	-	2.5	19.8	0.73	84.9

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

146 ESKDALEMUIR (H)												16,000γ (0.16 C.G.S. unit) +												DECEMBER 1943	
	Hour G.M.T.																								
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2	510	510	511	513	515	515	515	514	514	508	510	514	518	522	517	517	521	508	517	518	510	498	510	518	513
3 d	514	511	510	510	514	522	522	524	523	521	521	523	525	528	526	530	467	514	508	490	485	485	489	526	512
4	502	503	501	503	507	501	512	521	517	510	510	508	509	501	486	499	511	487	486	524	493	506	523	517	506
5	523	502	495	519	511	515	515	510	510	511	511	506	517	481	492	494	506	510	514	495	502	501	540	505	508
6 q	498	508	510	508	489	510	522	522	512	521	517	511	499	506	482	505	506	510	515	514	514	521	510	511	509
7	512	510	512	512	514	515	515	515	514	515	514	515	514	515	513	514	515	520	521	521	520	517	514	512	515
8	510	514	519	521	524	523	523	522	521	515	517	516	511	512	512	515	517	521	521	521	522	518	517	516	518
9	522	518	521	521	520	524	528	529	526	526	526	525	523	521	515	511	499	504	504	512	517	517	516	517	518
10	515	518	524	530	537	545	545	537	525	523	526	522	516	515	511	494	505	507	518	514	507	506	511	510	519
11 q	537	515	521	521	530	532	533	526	528	530	526	522	505	513	508	498	497	510	517	521	519	518	514	514	519
12 q	514	514	515	517	521	523	525	525	526	525	527	530	528	526	522	519	517	514	517	520	524	521	521	519	521
13 q	518	521	521	522	526	529	529	529	528	526	525	521	521	520	518	518	519	518	521	517	517	514	514	524	521
14	512	515	514	524	528	527	532	532	531	529	528	524	523	522	524	520	521	522	519	517	514	519	523	522	523
15	521	521	523	525	529	533	535	537	534	537	529	523	521	518	509	490	502	515	517	514	514	511	510	508	520
16 d	509	508	510	512	514	519	521	519	514	517	514	514	517	523	523	523	521	517	517	512	501	496	502	505	514
17 d	512	505	510	523	528	525	541	538	503	439	475	510	486	456	482	462	470	473	462	479	503	505	502	505	496
18	494	490	511	497	475	517	538	514	514	510	466	446	470	477	501	495	480	498	492	507	503	515	505	519	497
19 d	510	501	490	502	514	511	510	513	512	506	517	507	498	505	466	499	492	498	495	537	513	510	510	510	505
20 d	509	517	533	505	517	519	525	502	511	501	493	496	479	487	499	509	481	450	466	482	510	507	521	494	501
21	485	501	503	507	504	510	521	501	504	510	483	492	496	482	482	474	493	496	490	521	497	496	503	538	500
22	499	506	513	510	510	515	515	518	514	514	522	514	498	510	510	514	517	514	510	499	512	508	517	486	510
23	496	496	501	511	506	514	518	515	515	487	504	507	501	502	502	505	503	501	502	517	515	514	511	528	507
24	513	510	511	505	515	521	519	518	512	497	498	503	501	503	513	513	517	514	510	517	506	509	522	520	511
25	518	507	509	506	513	522	516	517	515	517	517	516	514	513	509	514	514	518	514	506	514	517	517	517	514
26	514	517	514	519	514	536	533	525	526	513	498	505	517	517	519	520	519	517	515	517	525	514	509	513	517
27	513	526	510	513	517	522	526	521	524	518	506	498	498	495	520	510	489	503	501	497	493	507	510	510	509
28 q	510	510	510	515	521	522	521	521	510	511	510	499	505	513	518	521	523	522	514	520	517	518	514	518	515
29	514	515	517	521	525	526	533	537	530	523	515	518	520	523	523	522	524	526	528	526	524	521	517	517	523
30	514	517	517	518	523	526	524	526	519	500	510	514	517	518	522	523	513	510	520	505	505	515	510	514	516
31	514	517	517	521	525	528	530	529	526	524	521	522	522	525	507	521	523	522	529	529	529	529	522	521	523
Mean	511	511	513	515	516	522	525	522	519	513	511	511	509	509	508	508	506	507	507	511	511	511	514	514	513

502 at 0-1h. January 1, 1944.

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

147 ESKDALEMUIR (D)												12° +												DECEMBER 1943											
	Hour G.M.T.																																		
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean										
1	27.0	27.4	27.5	27.6	27.8	27.7	27.8	27.5	27.7	28.1	28.7	28.7	29.7	30.3	29.6	29.3	32.3	32.2	24.9	29.0	28.6	23.8	25.8	26.9	28.2										
2	27.4	26.8	25.9	25.8	27.3	26.5	26.9	27.0	27.3	28.3	29.3	29.6	29.5	30.4	30.4	34.5	31.7	33.2	32.3	20.9	19.4	25.1	23.7	20.8	27.5										
3 d	24.5	25.0	28.6	27.8	28.1	25.6	25.9	26.3	27.7	26.0	28.9	30.3	31.3	32.0	33.3	32.9	21.2	21.5	28.6	20.1	24.1	24.4	28.8	29.9	27.2										
4	28.8	24.0	25.0	25.7	24.2	25.1	26.5	27.4	27.7	27.3	28.9	28.8	30.8	30.2	27.1	30.2	28.6	28.1	18.9	19.7	25.9	23.7	25.0	24.6	26.3										
5	26.5	28.7	29.5	27.7	28.5	28.9	28.0	28.4	28.0	28.7	29.4	29.9	29.7	29.9	30.4	30.4	25.5	28.3	28.9	26.8	24.5	23.5	26.1	26.1	28.0										
6 q	25.6	26.3	26.8	27.1	27.3	27.2	27.1	27.3	27.5	27.7	28.0	27.9	28.2	28.2	28.0	27.8	27.7	27.8	27.7	27.6	27.6	26.8	26.8	26.9	27.4										
7	27.5	27.1	27.3	27.0	26.9	26.9	26.9	27.0	27.3	27.8	29.0	29.7	30.1	30.1	30.4	29.6	28.6	28.0	27.6	27.1	27.3	26.9	26.8	26.8	27.9										
8	27.1	27.2	27.4	27.2	27.4	27.7	27.7	27.6	27.7	28.6	28.6	29.4	30.4	30.7	30.4	29.5	26.0	28.6	26.9	26.3	26.3	26.1	26.8	26.8	27.9										
9	27.1	27.4	29.5	26.5	26.9	26.2	27.4	28.6	28.6	28.8	28.7	29.0	31.1	31.9	30.9	29.6	29.2	28.8	28.1	27.8	26.8	25.3	23.2	24.8	28.0										
10	26.5	24.1	25.8	25.7	25.9	27.1	27.4	28.0	28.8	28.8	28.3	29.7	32.2	32.0	30.4	33.1	31.1	27.7	27.0	27.0	26.7	26.6	26.7	27.0	28.1										
11 q	26.3	26.9	26.8	26.8	27.1	27.3	27.5	27.7	28.0	28.7	29.0	29.6	30.3	29.5	28.8	29.2	29.1	29.6	26.8	26.7	27.4	27.0	26.2	26.0	27.8										
12 q	26.7	27.4	27.5	28.0	27.9	27.8	27.8	27.5	27.4	28.1	28.5	28.6	28.6	28.7	28.8	29.4	29.8	29.7	29.8	28.4	26.3	25.5	25.5	24.4	27.8										
13 q	25.1	27.9	29.5	27.9	27.8	28.1	28.1	27.9	27.7	27.9	28.0	28.6	29.3	29.5	29.1	29.2	28.9	28.9	29.1	25.1	24.3	26.2	26.7	26.9	27.8										
14	27.1	27.5	27.7	28.1	28.3	28.1	27.9	27.9	27.8	28.2	28.4	29.3	30.5	31.3	32.1	36.8	31.3	30.1	28.9	27.6	26.8	26.2	25.7	24.9	28.7										
15	26.6	26.1	27.2	27.2	27.5	28.1	28.0	27.7	27.3	27.7	28.0	28.7	28.8	28.7	27.9	28.0	28.8	28.8	29.6	29.4	23.8	20.0	23.9	24.8	27.2										
16 d	18.4	24.6	26.9	27.3	28.4	29.3	29.4	29.1	28.7	31.5	39.3	35.7	37.9	41.0	37.7	32.4	27.6	30.1	17.2	19.3	18.4	26.5	20.7	21.2	28.3										
17 d	17.3	24.9	29.1	25.3	33.1	30.4	33.8	29.4	27.4	29.4	31.3	30.0	30.9	32.5	30.2	27.8	20.2	21.6	25.0	22.2	24.0	24.5	28.7	27.0	27.3										
18	24.1	24.5	29.8	27.1	26.9	27.7	28.7	30.9	29.5	26.7	27.7	29.5	28.6	29.0	23.1	28.8	27.5	26.4	23.4	16.1	17.6	24.9	26.8	26.3	26.3										
19 d	23.8	23.8	25.5	24.2	26.3	27.3	29.4	34.4	34.5	32.4	30.8	31.8	30.9	29.3	28.1	29.5	29.7	15.3	6.1	21.1	20.4	18.5	21.1	21.9	25.7										
20 d	31.8	27.9	26.6	26.9	27.1	28.1	29.5	30.4	31.1	30.9	31.0	29.1	30.8	25.0	26.3	24.7	20.1	11.0	25.1	13.4	15.1	23.4	25.9	17.9	25.4										
21	23.6	22.8	23.0	25.4	26.8	28.1	29.4	29.9	29.7	29.4	29.2	30.5	29.7	28.6	28.7	27.3	27.8	28.4	26.5	3.6	12.8	23.1	21.3	20.8	25.3										
22	26.6	30.0	28.1	26.7	27.0	27.3	28.5	27.7	27.9	27.3	28.0	30.7	29.1	29.6	26.3	26.8	19.0	23.0	23.4	19.9	21.4	24.1	26.0	22.2	26.1										
23	25.5	27.2	25.5	26.1	27.8	27.2	27.3	27.7	27.9	27.8	30.8	29.5	30.6	26.0	29.0	27.8	27.5	26.8	22.7	20.3	26.5	25.7	24.9	21.9	26.7										
24	24.9	21.6	22.3	25.6	26.4	26.0	27.3	28.1	27.9	27.8	28.5	28.7	29.1	29.5	28.6	27.9	28.4	28.8	28.4	25.8	24.1	25.9	26.8	26.8	26.9										
25	26.7	26.8	26.8	26.8	31.3	26.9	27.7	26.9	28.4	29.1	28.4	28.1	28.6	28.7	28.1	27.5	27.3	27.6	27.8	27.2	25.2	21.9	24.1	25.0	27.2										
26	26.5	26.4	25.1	26.8	27.5	27.6	27.3	26.6	26.8	27.0	27.3	29.8	30.4	32.6	31.4	28.7	19.6	29.5	27.1	21.4	20.3	23.5	24.3	26.1	26.7										
27	27.1	28.0	27.8	30.1	28.8	26.8	26.2	26.3	26.0	27.1	28.3	29.2	31.1	30.9	29.4	28.8	28.5	27.6	26.8	25.0	25.7	25.2	25.9	25.4	27.6										
28 q	26.0	27.3	27.6	27.1	27.5	27.0	29.4	26.9	26.6	26.3	27.5	28.8	29.3	29.0	27.9	27.6	27.3	27.1	26.8	26.7	26.4	26.1	26.1	26.5	27.3										
29	26.7	26.8	27.5	26.3	26.4	25.9	25.9	25.8	26.2	26.6	29.3	30.4	30.2	30.3	29.7	29.6	29.8	29.6	28.5	26.3	22.7	25.7	24.9	25.0	27.3										
30	25.9	26.8	27.1	27.5	27.6	27.9	27.7	27.1	26.7	26.9	27.7	28.7	29.5	29.9	29.3	30.3	30.3	29.1	28.6	27.5	26.8	26.1	26.2	25.9	27.8										
31	24.9	25.8	25.8	25.9	26.0	27.3	27.3	26.9	26.3	26.8	29.8	29.7	30.6	34.0	32.9	32.1	35.3	33.9	30.3	18.6	17.7	23.0	10.1	11.2	26.3										
Mean	25.8	26.3	27.0	26.8	27.5	27.4	27.9	28.0	28.0	28.2	29.2	29.6	30.3	30.3	29.5	29.6	27.6	27.3	26.1	23.3	23.6	24.7	24.9	24.5	27.2										

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

105

148 ESKDALEUIR (V)

44,000γ + (0.44 C.G.S. unit) +

DECEMBER 1943

	Hour G. M. T.																										
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean		
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ		
1	1097	1097	1097	1097	1097	1097	1097	1096	1094	1097	1097	1097	1096	1097	1098	1098	1098	1103	1109	1103	1108	1126	1117	1106	1101		
2	1100	1099	1098	1098	1095	1094	1093	1092	1091	1090	1091	1091	1088	1086	1086	1090	1094	1122	1115	1119	1141	1139	1114	1103	1080	1101	
3 d	1084	1087	1086	1091	1087	1086	1083	1085	1090	1091	1091	1091	1090	1094	1099	1116	1116	1127	1122	1122	1116	1114	1104	1090	1074	1098	
4	1060	1073	1084	1084	1085	1086	1085	1085	1086	1091	1091	1091	1091	1093	1105	1115	1109	1104	1106	1115	1115	1108	1106	1080	1084	1093	
5	1091	1087	1085	1084	1081	1085	1085	1087	1091	1092	1093	1093	1093	1095	1097	1105	1105	1109	1104	1100	1100	1102	1099	1098	1098	1094	
6 q	1098	1097	1097	1096	1094	1093	1093	1093	1093	1091	1091	1091	1092	1092	1092	1093	1094	1096	1094	1094	1093	1094	1097	1098	1098	1094	
7	1098	1097	1094	1093	1092	1092	1092	1091	1091	1090	1091	1091	1091	1095	1097	1096	1094	1094	1094	1094	1093	1094	1097	1098	1098	1094	
8	1094	1093	1091	1089	1088	1087	1087	1087	1090	1090	1091	1091	1091	1091	1094	1097	1098	1104	1103	1105	1104	1099	1098	1097	1095	1094	
9	1093	1091	1086	1082	1081	1079	1079	1079	1080	1086	1087	1087	1087	1090	1093	1097	1103	1106	1103	1099	1099	1103	1105	1103	1097	1092	
10	1078	1076	1080	1081	1080	1079	1079	1081	1082	1085	1084	1083	1083	1092	1096	1098	1102	1105	1103	1098	1094	1093	1093	1093	1094	1089	
11 q	1093	1093	1092	1091	1090	1089	1087	1086	1086	1086	1087	1088	1088	1090	1093	1092	1092	1093	1093	1097	1093	1092	1092	1092	1091	1091	
12 q	1092	1090	1089	1087	1087	1086	1086	1086	1086	1087	1087	1090	1090	1092	1092	1092	1093	1093	1093	1096	1098	1102	1103	1099	1091	1092	
13 q	1090	1087	1086	1084	1086	1086	1085	1084	1085	1085	1085	1085	1085	1086	1090	1091	1091	1091	1091	1092	1095	1093	1091	1091	1091	1088	
14	1091	1091	1091	1090	1088	1086	1085	1082	1083	1081	1081	1081	1085	1087	1091	1093	1108	1115	1105	1099	1098	1096	1097	1097	1097	1092	
15	1092	1094	1093	1093	1092	1091	1090	1088	1091	1091	1092	1093	1093	1093	1093	1093	1093	1093	1092	1093	1094	1102	1109	1098	1084	1093	
16 d	1072	1079	1087	1086	1085	1086	1080	1079	1080	1097	1093	1097	1097	1104	1136	1158	1166	1160	1156	1167	1142	1120	1086	1072	1068	1107	
17 d	1068	1056	1061	1073	1068	1060	1064	1076	1086	1088	1095	1109	1115	1113	1111	1118	1129	1124	1115	1111	1106	1095	1081	1051	1091		
18	1063	1078	1079	1076	1082	1087	1088	1090	1091	1094	1094	1096	1103	1106	1122	1115	1114	1112	1116	1103	1097	1093	1093	1092	1095	1095	
19 d	1090	1079	1071	1079	1085	1086	1086	1084	1086	1091	1099	1103	1110	1119	1115	1109	1123	1151	1151	1126	1108	1084	1084	1085	1100	1095	
20 d	1062	1050	1074	1085	1087	1090	1087	1090	1092	1093	1098	1109	1107	1119	1124	1128	1136	1134	1123	1115	1102	1097	1093	1084	1099	1099	
21	1061	1068	1080	1085	1088	1091	1091	1090	1091	1093	1095	1093	1098	1100	1104	1104	1102	1098	1098	1103	1123	1103	1085	1067	1043	1090	
22	1062	1063	1075	1080	1085	1088	1088	1091	1091	1098	1098	1097	1101	1104	1110	1109	1112	1109	1106	1104	1098	1097	1087	1072	1093	1093	
23	1079	1085	1089	1092	1091	1092	1091	1091	1091	1098	1103	1104	1104	1110	1105	1103	1098	1099	1103	1104	1099	1104	1098	1092	1097	1097	
24	1087	1085	1081	1080	1077	1076	1081	1084	1087	1090	1091	1093	1093	1097	1099	1099	1099	1099	1099	1100	1104	1103	1098	1097	1096	1091	
25	1096	1093	1093	1093	1088	1079	1084	1086	1087	1092	1098	1104	1103	1099	1099	1099	1098	1099	1098	1098	1098	1099	1097	1097	1094	1095	
26	1087	1081	1090	1091	1092	1092	1091	1092	1093	1097	1098	1101	1104	1109	1115	1116	1134	1121	1116	1129	1129	1100	1097	1098	1103	1103	
27	1098	1098	1097	1093	1090	1091	1092	1091	1092	1093	1094	1097	1097	1102	1105	1104	1099	1098	1100	1099	1097	1097	1097	1097	1097	1097	
28 q	1097	1097	1097	1097	1093	1093	1089	1087	1088	1088	1091	1091	1091	1091	1093	1095	1095	1094	1093	1093	1092	1092	1092	1093	1093	1093	
29	1094	1093	1092	1092	1093	1092	1091	1091	1091	1094	1093	1095	1094	1094	1096	1097	1100	1101	1099	1105	1112	1101	1099	1097	1096	1096	
30	1097	1097	1097	1095	1093	1091	1090	1090	1091	1089	1090	1091	1091	1094	1097	1103	1098	1097	1098	1097	1094	1093	1091	1091	1091	1094	
31	1092	1091	1091	1091	1091	1089	1087	1087	1087	1092	1091	1094	1097	1097	1103	1116	1121	1129	1154	1162	1146	1128	1099	1078	1105	1105	
Mean	1086	1085	1087	1088	1087	1087	1087	1087	1089	1091	1092	1094	1096	1100	1104	1105	1109	1108	1109	1108	1105	1099	1093	1087	1095	1095	

1073 at 0-1h. January 1, 1944.

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

149 ESKDALEUIR

DECEMBER 1943

	TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices 'K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.
	Horizontal force			Declination			Vertical force									
	Maximum 16,000γ +	Minimum 16,000γ +	Range	Maximum 12° +	Minimum 12° +	Range	Maximum 44,000γ +	Minimum 44,000γ +	Range							
	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ							
1	16 23 533	482 21 20	51	17 0 34.6	22.1 18 17	12.5	21 28 1129	1093 12 40	36	0,0,0,2,2,3,3,3	13	0	84.5			
2	23 10 557	454 16 7	103	15 59 36.8	4.1 19 51	32.7	19 49 1170	1075 23 17	95	2,2,2,2,2,4,5,4	23	1	84.4			
3 d	19 12 587	455 14 33	132	14 24 37.6	10.1 19 7	27.5	18 57 1140	1061 24 0	79	2,2,3,2,4,5,5,4	27	1	84.4			
4	22 23 587	505 13 33	82	13 11 32.4	13.3 18 21	19.1	18 21 1120	1057 0 10	63	3,3,2,2,3,3,4,4	24	1	84.4			
5	9 50 534	465 4 59	69	15 40 32.2	21.0 20 40	11.2	16 16 1110	1080 4 20	30	2,4,2,3,3,3,3,2	22	1	84.2			
6 q	19 7 524	509 23 12	15	13 11 28.7	25.0 0 2	3.7	23 40 1100	1090 10 2	10	1,0,0,1,1,1,0,1	5	0	84.2			
7	4 7 526	506 0 33	20	14 41 31.1	26.0 3 4	5.1	0 1 1099	1088 9 40	11	2,1,0,1,1,1,0,0	6	0	84.1			
8	7 10 530	488 16 22	42	13 50 31.5	23.5 16 44	8.0	16 42 1108	1086 5 40	22	1,1,1,1,2,2,2,1	11	0	84.0			
9	6 40 548	485 15 42	63	13 16 32.5	22.3 23 0	10.2	16 22 1109	1077 7 0	32	2,2,2,2,2,2,2,2	16	0	84.0			
10	0 24 561	490 15 50	71	15 31 34.7	23.3 1 13	11.4	16 40 1106	1073 0 53	33	3,1,1,2,2,2,1,1	13	0	84.0			
11 q	11 47 534	510 17 59	24	17 46 30.9	25.1 18 46	5.8	18 40 1098	1085 7 40	13	1,1,1,2,2,1,2,1	11	0	83.9			
12 q	23 15 541	510 21 7	31	17 9 30.5	22.5 24 0	8.0	21 10 1104	1085 7 40	19	1,0,0,1,1,1,2,3	9	0	83.8			
13 q	9 47 535	502 20 20	33	2 40 31.4	21.1 19 59	10.3	19 18 1098	1082 3 10	16	3,1,1,1,1,0,3,1	11	0	83.8			
14	7 8 540	466 15 44	74	15 30 38.9	24.2 23 19	14.7	16 5 1120	1080 9 51	40	0,1,1,1,2,3,1,2	11	0	83.8			
15	16 3 527	486 21 15	41	19 15 30.0	14.2 20 59	15.8	21 12 1115	1074 24 0	41	2,1,0,1,1,1,4,3	13	1	83.6			
16 d	22 53 575	408 13 5	167	13 36 44.8	9.5 22 47	35.3	18 18 1175	1067 23 39	108	3,2,3,5,5,4,5,5	32	2	83.6			
17 d	6 26 551	410 16 31	141	6 35 36.3	7.3 16 42	29.0	16 40 1140	1044 23 39	96	4,4,3,4,3,5,3,4	30	1	83.5			
18	19 28 603	431 14 20	172	2 45 35.7	7.1 19 22	28.6	14 45 1128	1051 0 1	77	4,3,2,3,4,3,5,2	26	1	83.4			
19 d	2 12 555	389 17 52	166	7 33 36.7	-15.9 17 57	52.6	17 56 1170	1068 2 52	102	3,3,3,3,3,6,6,4	31	2	83.4			
20 d	23 48 615	450 16 32	165	0 48 36.9	2.5 17 15	34.4	16 41 1150	1038 0 58	112	4,2,3,3,3,5,4,5	29	1	83.3			
21	22 33 575	450 0 23	125	11 32 33.3	-5.6 19 32	38.9	19 29 1128	1033 23 25	95	4,2,1,2,3,1,5,4	22	1	83.3			
22	19 11 547	469 16 30	78	11 55 32.7	11.5 19 3	21.2	16 31 1117	1057 0 1	60	3,2,2,3,3,4,4,3	24	1	83.3			
23	22 42 535	475 13 10	60	12 53 32.4	14.9 19 9	17.5	13 32 1111	1044 0 1	67	2,2,1,3,3,1,3,2	17	1	83.3			
24	20 25 537	494 19 52	43	11 40 30.4	21.2 1 37	9.2	20 5 1110	1075 5 20	35	2,2,1,2,2,1,3,2	15	0	83.1			
25	5 43 541	483 11 2	58	4 47 33.3	17.9 20 22	15.4	11 36 1105	1078 5 7	27	1,3,2,3,1,1,3,3	17	0	83.1			
26	20 55 553	458 16 22	95	13 4 33.9	9.9 16 49	24.0	16 44 1147	1079 1 27	68	3,2,1,2,3,4,4,3	22	1	83.2			
27	17 28 527	488 11 52	39	12 24 33.1	24.3 19 40	8.8	14 32 1106	1087 4 38	19	0,2,1,2,2,1,2,2	12	0	83.0			
28 q	6 58 540	509 0 12	31	6 19 30.5	25.7 8 50	4.8	0 1 1098	1086 6 52	12	2,1,2,0,1,0,0,0	6	0	83.0			
29	5 17 529	478 20 2	51	13 9 31.2	17.7 20 10	13.5	20 16 1121	1089 7 41	32	1,1,1,2,0,2,3,2	12	0	82.8			
30	19 6 534	502 14 39	32	15 48 30.6	24.9 0 2	5.7	14 39 1104	1087 6 55	17	1,1,0,1,3,2,1,1	10	0	82.9			
31	22 35 580	466 19 35	114	16 9 38.9	-0.2 22 56	39.1	19 14 1164	1075 24 0	89	1,1,0,2,3,3,4,5	19	1	82.8			
Mean	- - 550	473 - -	77	- - 33.7	15.2 - -	18.5	- - 1123	1072 - -	50	2.1	17.4	0.55	83.6			

ALL DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

150 ESKDALEUIR

1943

	Hour G.M.T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
NORTH COMPONENT																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	+3.1	-0.7	+0.1	+3.1	+5.5	+8.2	+10.0	+8.5	+6.5	+0.4	-5.5	-12.1	-10.3	-7.5	-3.3	-2.2	-3.3	-3.2	-2.5	-2.5	-0.5	+3.6	+1.6	+2.9
Feb.	+3.3	+3.1	+2.0	+3.6	+5.1	+7.8	+7.8	+8.0	+4.7	-0.1	-8.6	-14.0	-10.9	-8.5	-6.6	-2.6	-1.9	-0.4	-0.7	+1.0	+1.8	+2.3	+3.2	+0.9
Mar.	+7.4	+4.3	+2.4	+6.6	+8.4	+9.5	+10.4	+7.2	+1.2	-9.8	-19.8	-23.2	-21.2	-14.0	-7.8	-4.4	-3.0	+2.8	+8.3	+6.9	+8.2	+6.0	+5.2	+8.4
Apr.	+11.3	+2.0	+1.4	+6.0	+7.1	+4.5	+3.3	+0.4	-4.2	-17.9	-28.5	-31.5	-27.2	-19.1	-9.4	-0.4	+8.0	+12.5	+14.6	+15.3	+13.9	+12.7	+12.2	+13.2
May	+10.1	+8.5	+2.2	+3.1	+1.4	-0.5	-5.0	-11.8	-15.4	-24.5	-29.6	-30.6	-26.5	-15.6	-9.3	+0.3	+8.2	+19.7	+25.4	+23.2	+21.8	+16.9	+15.4	+12.7
June	+10.9	+5.7	+3.2	+4.4	+2.3	+2.2	-0.4	-9.4	-17.4	-24.8	-29.8	-28.4	-27.9	-17.7	-6.0	+1.1	+9.1	+20.9	+22.6	+22.4	+19.0	+15.8	+12.7	+9.6
July	+9.5	+5.5	+2.8	+4.1	+6.0	+2.5	-3.6	-8.9	-12.7	-21.6	-27.5	-28.7	-23.8	-19.1	-7.7	+1.2	+7.7	+16.8	+23.6	+19.1	+18.0	+13.5	+12.2	+11.2
Aug.	-4.0	+4.1	-1.4	-1.0	-3.7	+1.8	-3.9	-9.4	-15.1	-28.3	-34.0	-29.8	-21.0	-12.5	+0.4	+10.8	+15.9	+24.1	+25.0	+25.2	+21.0	+16.4	+10.3	+9.1
Sept.	+4.7	+3.8	+1.1	+1.8	+4.5	+6.8	-0.9	-0.9	-9.4	-22.0	-33.1	-34.8	-21.8	-12.7	-6.7	+0.2	+7.0	+10.7	+18.7	+18.3	+15.3	+22.8	+12.9	+13.9
Oct.	+8.3	+2.6	+1.9	+8.2	+5.2	+8.4	+3.0	-1.3	-7.3	-17.9	-25.6	-24.2	-18.9	-11.8	-7.1	-2.5	+2.0	+4.0	+9.5	+12.8	+16.7	+16.0	+11.3	+6.7
Nov.	+5.6	+0.4	+2.4	+3.6	+6.1	+9.1	+6.8	+3.4	-4.8	-8.6	-13.9	-14.3	-14.5	-9.7	-6.2	-4.6	+0.1	+3.0	+3.5	+5.4	+5.9	+3.6	+10.3	+7.3
Dec.	+0.2	-0.5	+0.3	+2.3	+3.4	+8.8	+11.3	+8.5	+5.3	-1.0	-3.3	-4.1	-6.7	-7.1	-7.2	-7.0	-7.1	-5.2	-3.9	+2.7	+1.7	+1.0	+3.7	+4.0
Year	+5.9	+3.3	+1.5	+3.8	+4.3	+5.7	+3.2	-0.5	-5.7	-14.7	-21.6	-23.0	-19.2	-13.0	-6.4	-0.9	+3.6	+8.8	+12.0	+12.5	+11.9	+10.9	+9.2	+8.3
Winter	+3.1	+0.6	+1.2	+3.1	+5.0	+8.5	+8.9	+7.1	+2.9	-2.3	-7.9	-11.2	-10.5	-8.2	-5.8	-4.1	-3.1	-1.5	-0.9	+1.7	+2.2	+2.7	+4.7	+3.8
Equinox	+7.9	+3.2	+1.7	+5.7	+6.3	+7.3	+3.9	+1.4	-4.9	-16.9	-26.7	-28.4	-22.3	-14.4	-7.7	-1.8	+3.5	+7.5	+12.7	+13.3	+13.5	+14.4	+10.4	+10.6
Summer	+6.6	+5.9	+1.7	+2.6	+1.5	+1.5	-3.2	-9.9	-15.1	-24.8	-30.3	-29.4	-24.8	-16.2	-5.7	+3.3	+10.2	+20.4	+24.1	+22.5	+19.9	+15.7	+12.6	+10.6

WEST COMPONENT																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	-8.1	-4.2	-0.1	-1.2	+0.5	+2.1	+2.4	+1.3	0.0	-1.7	+1.4	+5.4	+12.5	+16.9	+14.8	+11.1	+8.9	+0.9	-1.0	-3.1	-11.2	-19.1	-17.7	-10.9
Feb.	-9.1	-7.0	-6.7	-5.9	-3.6	-3.2	-2.2	-1.8	-1.8	-3.5	+0.1	+6.4	+14.2	+18.1	+18.4	+13.6	+9.3	+6.4	+3.5	+0.7	-8.4	-11.5	-13.2	-13.0
Mar.	-6.7	-7.1	-5.7	-3.7	-5.4	-5.5	-5.3	-7.9	-11.3	-11.4	-2.3	+8.9	+21.0	+27.3	+27.7	+22.9	+13.4	+5.8	+2.3	-1.2	-13.8	-18.3	-14.7	-8.9
Apr.	-13.5	-10.8	-7.3	-11.0	-11.1	-9.1	-11.2	-12.1	-18.0	-14.8	-5.0	+8.3	+21.4	+29.1	+27.7	+21.3	+15.3	+10.3	+6.8	+1.8	-0.7	-4.6	-5.7	-7.0
May	-4.8	-6.7	-6.9	-9.9	-9.5	-13.6	-18.8	-22.5	-23.0	-15.7	-5.5	+7.4	+18.5	+24.8	+24.1	+22.5	+18.5	+14.7	+11.0	+7.5	+3.7	-1.8	-6.5	-7.4
June	-3.0	-8.4	-10.1	-10.6	-11.0	-15.9	-21.3	-23.0	-25.0	-20.2	-11.5	+3.9	+15.1	+22.4	+26.4	+24.8	+20.2	+15.9	+13.7	+10.2	+8.1	+2.9	-0.3	-3.2
July	-7.1	-6.7	-7.5	-9.2	-13.0	-16.3	-17.3	-20.9	-21.9	-19.8	-12.2	+0.3	+15.0	+24.6	+27.9	+27.4	+22.8	+18.3	+15.0	+8.0	+1.1	-0.1	-2.8	-5.5
Aug.	-13.3	-9.0	-6.6	-8.4	-9.1	-7.8	-10.4	-14.1	-15.1	-15.4	-5.1	+9.4	+23.5	+30.4	+31.4	+22.9	+18.8	+9.5	+5.0	-3.1	-4.3	-9.9	-8.3	-11.0
Sept.	-5.9	-2.9	-6.0	-5.7	-3.1	-3.4	-4.4	-7.0	-9.1	-9.5	-2.8	+7.5	+19.5	+26.0	+24.5	+18.1	+12.6	+5.4	-8.6	-8.9	-4.7	-8.5	-9.1	-14.0
Oct.	-7.0	-3.0	-6.4	-2.7	-1.0	+4.7	+3.4	+2.2	0.0	-3.0	+3.4	+13.5	+20.6	+22.7	+13.7	+12.4	-3.8	-6.4	-14.4	-11.8	-10.9	-13.4	-9.1	-3.7
Nov.	-4.6	-0.9	+3.0	+3.7	+6.0	+9.4	+8.5	+8.4	+3.4	+1.8	+4.5	+11.1	+14.5	+14.2	+10.0	+5.3	-4.1	-8.0	-13.3	-18.3	-19.2	-17.2	-12.9	-5.5
Dec.	-7.0	-4.7	-1.1	-1.6	+2.3	+2.8	+6.0	+5.7	+5.0	+4.5	+8.9	+10.8	+13.4	+13.6	+9.6	+10.1	+0.3	-0.6	-6.4	-18.5	-17.5	-12.3	-10.7	-12.6
Year	-7.5	-5.9	-5.1	-5.5	-4.9	-4.7	-5.9	-7.6	-9.7	-9.1	-2.2	+7.7	+17.4	+22.5	+21.4	+17.7	+11.0	+6.0	+1.1	-3.1	-6.5	-9.5	-9.2	-8.5
Winter	-7.2	-4.1	-1.2	-1.2	+1.3	+2.8	+3.7	+3.4	+1.6	+0.3	+3.7	+8.4	+13.7	+15.7	+13.2	+10.0	+3.6	-0.3	-4.3	-9.8	-14.1	-15.0	-13.6	-10.5
Equinox	-8.3	-5.9	-6.4	-5.8	-5.1	-3.3	-4.4	-6.2	-9.6	-9.7	-1.7	+9.5	+20.6	+26.3	+23.4	+18.7	+9.4	+3.8	-3.5	-5.0	-7.5	-11.2	-9.6	-8.4
Summer	-7.1	-7.7	-7.7	-9.5	-10.7	-13.4	-16.9	-20.2	-21.2	-17.8	-8.5	+5.2	+18.1	+25.6	+27.4	+24.3	+20.2	+14.6	+11.2	+5.6	+2.1	-2.2	-4.5	-6.8

VERTICAL COMPONENT																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	-4.4	-5.2	-6.8	-6.1	-5.2	-5.3	-5.8	-5.8	-5.1	-4.7	-4.3	-3.6	-4.1	-0.9	+3.4	+5.4	+6.5	+11.6	+11.3	+11.4	+9.5	+5.2	+3.0	0.0
Feb.	-1.9	-5.0	-6.6	-6.6	-6.4	-6.6	-5.3	-5.2	-4.5	-3.8	-4.4	-3.6	-3.7	-1.7	+1.5	+5.0	+6.8	+8.4	+9.0	+10.0	+10.3	+7.6	+5.0	+1.7
Mar.	-7.7	-10.4	-8.7	-8.2	-8.2	-6.3	-4.2	-3.2	-2.7	-3.5	-6.2	-7.3	-6.1	-2.4	+3.3	+10.3	+15.0	+15.7	+14.6	+13.0	+12.1	+7.1	-1.4	-4.6
Apr.	-7.8	-11.3	-16.8	-15.6	-12.8	-10.8	-6.9	-4.6	-3.4	-2.6	-3.9	-5.5	-5.5	-1.6	+6.1	+12.0	+15.8	+18.1	+17.2	+15.4	+12.2	+9.9	+5.1	-2.7
May	-10.0	-11.4	-16.8	-15.5	-12.0	-8.8	-5.2	-2.9	-2.4	-4.9	-8.0	-8.4	-5.9	+0.7	+7.8	+12.9	+17.3	+18.6	+19.2	+17.8	+14.5	+8.3	+0.9	-5.8
June	-8.1	-10.9	-9.2	-6.1	-5.1	-4.2	-2.5	-2.4	-2.2	-5.3	-7.8	-9.8	-7.6	-3.1	+1.3	+6.6	+11.5	+14.9	+16.0	+14.5	+11.9	+8.3	+1.4	-2.1
July	-4.8	-9.6	-11.7	-11.9	-8.5	-6.6	-6.9	-6.2	-5.7	-4.4	-6.6	-9.2	-8.7	-4.2	+2.5	+9.5	+15.2	+18.7	+17.8	+17.2	+14.4	+8.3	+2.9	-1.5
Aug.	-28.5	-26.7	-31.0	-28.5	-26.4	-20.5	-14.7	-9.2	-5.4	-1.8	-2.0	-0.8	+3.9	+12.6	+24.0	+36.9	+36.7	+34.9	+31.2	+25.8	+13.4	+1.7	-6.9	-18.7
Sept.	-20.4	-26.1	-29.0	-27.1	-21.5	-15.3	-8.6	-4.2	-1.9	+1.4	+2.0	+4.2	+6.2	+9.9	+18.4	+22.8	+25.0	+28.3	+26.4	+17.9	+12.3	+1.0	-8.8	-12.9
Oct.	-19.1	-27.5	-24.9	-19.1	-16.2	-12.3	-7.0	-3.3	-0.9	+0.5	-0.1	+0.4	+5.1	+12.3	+20.9	+22.8	+26.4	+24.9	+20.9	+13.9	+4.7	-1.7	-7.7	-13.0
Nov.	-14.0	-13.4	-12.8	-12.3	-12.9	-12.4	-10.4	-7.9	-3.9	-0.3	+0.7	+2.1	+6.0	+10.1	+16.7	+18.7	+12.2	+14.6	+10.2	+4.7	+0.7	-3.8	-11.3	
Dec.	-9.5	-9.8	-8.0	-7.2	-7.7	-8.0	-8.6	-8.1	-6.7	-4.1	-2.9	-1.1	+1.2	+5.2	+9.0	+10.1	+13.3	+12.7	+13.6	+12.8	+9.4	+4.1	-1.8	-7.9
Year	-11.3	-13.9	-15.2	-13.7	-11.9	-9.8	-7.2	-5.3	-3.7	-2.8	-3.6	-3.5	-1.6	+3.1	+9.6	+14.4	+17.3	+18.3	+17.7	+15.0	+10.8	+5.0	-1.0	-6.6
Winter	-7.5	-8.3	-8.5	-8.1	-8.1	-8.1	-7.5	-6.7	-5.1	-3.7	-2.7	-1.5	-0.1	+3.2	+7.7	+9.8	+11.3	+11.2	+12.1	+11.1	+8.5	+4.4	+0.6	-4.4
Equinox	-13.7	-18.8	-19.9	-17.5	-14.7	-11.2	-6.7	-3.8	-2.2	-1.1	-2.1	-2.1	-0.1	+4.5	+12.2	+17.0	+20.5	+21.7	+19.8	+15.1	+10.3	+4.1	-3.2	-8.3
Summer	-12.9	-14.7	-17.2	-15.5	-13.0	-10.0	-7.3	-5.2	-3.9	-4.1	-6.1	-7.1	-4.6	+1.5	+8.9	+16.5	+20.2	+21.8	+21.1	+18.8	+13.5	+6.7	-0.4	-7.0

ALL DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

151 ESKDALEUIR

1943

	Hour G.M.T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
DECLINATION (measured positive towards the west)																								
Jan.	-1.79	-0.82	-0.02	-0.39	-0.14	+0.06	+0.04	-0.13	-0.30	-0.36	+0.54	+1.65	+3.01	+3.77	+3.16	+2.35	+1.95	+0.33	-0.09	-0.51	-2.26	-4.04	-3.67	-2.34
Feb.	-2.00	-1.56	-1.46	-1.35	-0.97	-1.00	-0.79	-0.72	-0.58	-0.70	+0.41	+1.93	+3.38	+4.07	+4.03	+2.88	+1.98	+1.32	+0.75	+0.09	-1.78	-2.43	-2.82	-2.68
Mar.	-1.70	-1.64	-1.26	-1.05	-1.48	-1.55	-1.55	-1.92	-2.34	-1.87	+0.42	+2.85	+5.22	+6.18	+5.98	+4.86	+2.86	+1.05	+0.10	-0.55	-3.18	-4.00	-3.23	-2.20
Apr.	-3.26	-2.28	-1.55	-2.50	-2.58	-2.06	-2.42	-2.47	-3.47	-2.20	+0.27	+3.10	+5.58	+6.77	+6.05	+4.34	+2.75	+1.54	+0.72	-0.33	-0.77	-1.50	-1.71	-2.02
May	-1.43	-1.75	-1.50	-2.16	-2.00	-2.75	-3.59	-4.05	-3.98	-2.09	+0.23	+2.88	+4.96	+5.75	+5.32	+4.55	+3.40	+2.10	+1.09	+0.47	-0.23	-1.13	-2.01	-2.08
June	-1.11	-1.96	-2.19	-2.35	-2.35	-3.34	-4.30	-4.25	-4.30	-2.99	-0.99	+2.07	+4.34	+5.35	+5.63	+4.99	+3.70	+2.28	+1.76	+1.06	+0.79	-0.12	-0.64	-1.08
July	-1.87	-1.60	-1.64	-2.05	-2.92	-3.43	-3.35	-3.85	-3.88	-3.05	-1.23	+1.35	+4.13	+5.87	+6.01	+5.51	+4.28	+2.95	+1.99	+0.76	-0.60	-0.64	-1.11	-1.63
Aug.	-2.52	-2.02	-1.27	-1.67	-1.69	-1.66	-1.94	-2.43	-2.38	-1.85	+0.50	+3.25	+5.72	+6.75	+6.36	+4.16	+3.11	+0.84	-0.11	-1.77	-1.83	-2.75	-2.16	-2.64
Sept.	-1.42	-0.75	-1.27	-1.24	-0.84	-1.00	-0.86	-1.38	-1.43	-0.94	+0.91	+3.10	+4.94	+5.85	+5.29	+3.67	+2.25	+0.62	-2.58	-2.63	-1.65	-2.75	-2.42	-3.47
Oct.	-1.80	-0.73	-1.39	-0.91	-0.44	+0.57	+0.56	+0.50	+0.32	+0.20	+1.85	+3.84	+5.03	+5.15	+3.10	+2.63	-0.86	-1.48	-3.35	-2.98	-2.96	-3.45	-2.35	-1.05
Nov.	-1.19	-0.19	+0.51	+0.60	+0.95	+1.51	+1.43	+1.55	+0.91	+0.75	+1.54	+2.90	+3.59	+3.32	+2.31	+1.29	-0.84	-1.77	-2.86	-3.97	-4.16	-3.65	-3.09	-1.44
Dec.	-1.43	-0.93	-0.24	-0.42	+0.32	+0.17	+0.71	+0.78	+0.78	+0.96	+1.96	+2.38	+3.03	+3.08	+2.27	+2.36	+0.38	+0.11	-1.13	-3.88	-3.64	-2.54	-2.33	-2.75
Year	-1.79	-1.35	-1.11	-1.29	-1.18	-1.21	-1.34	-1.53	-1.72	-1.18	+0.53	+2.61	+4.41	+5.16	+4.63	+3.63	+2.08	+0.82	-0.31	-1.19	-1.86	-2.42	-2.29	-2.11
Winter	-1.60	-0.87	-0.30	-0.39	+0.04	+0.19	+0.35	+0.37	+0.20	+0.16	+1.11	+2.21	+3.25	+3.56	+2.94	+2.22	+0.87	0.00	-0.83	-2.07	-2.96	-3.17	-2.98	-2.30
Equinox	-2.05	-1.35	-1.37	-1.43	-1.33	-1.01	-1.07	-1.32	-1.73	-1.20	+0.86	+3.22	+5.19	+5.99	+5.11	+3.87	+1.75	+0.43	-1.28	-1.62	-2.14	-2.93	-2.43	-2.19
Summer	-1.73	-1.83	-1.65	-2.06	-2.24	-2.79	-3.29	-3.65	-3.63	-2.49	-0.37	+2.39	+4.79	+5.93	+5.83	+4.80	+3.62	+2.04	+1.18	+0.13	-0.47	-1.16	-1.48	-1.86

	INCLINATION																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Jan.	-0.20	-0.02	-0.18	-0.33	-0.50	-0.70	-0.84	-0.72	-0.55	-0.12	+0.24	+0.63	+0.39	+0.22	+0.08	+0.11	+0.25	+0.48	+0.45	+0.49	+0.43	+0.18	+0.23	-0.03
Feb.	-0.13	-0.23	-0.20	-0.31	-0.44	-0.63	-0.61	-0.63	-0.39	-0.04	+0.46	+0.74	+0.41	+0.25	+0.20	+0.10	+0.16	+0.14	+0.22	+0.17	+0.26	+0.21	+0.11	+0.18
Mar.	-0.58	-0.43	-0.29	-0.58	-0.67	-0.70	-0.71	-0.44	+0.02	+0.72	+1.18	+1.21	+0.94	+0.47	+0.19	+0.21	+0.37	+0.12	-0.22	-0.12	-0.04	+0.05	-0.16	-0.54
Apr.	-0.74	-0.25	-0.40	-0.62	-0.62	-0.43	-0.23	+0.03	+0.45	+1.33	+1.85	+1.82	+1.34	+0.80	+0.37	+0.01	-0.36	-0.52	-0.63	-0.65	-0.60	-0.52	-0.59	-0.83
May	-0.84	-0.74	-0.46	-0.45	-0.25	+0.01	+0.47	+1.03	+1.29	+1.72	+1.83	+1.70	+1.33	+0.68	+0.46	-0.02	-0.38	-1.05	-1.36	-1.20	-1.13	-0.88	-0.89	-0.87
June	-0.87	-0.52	-0.29	-0.29	-0.12	-0.02	+0.27	+0.90	+1.45	+1.80	+1.94	+1.57	+1.43	+0.76	+0.04	-0.27	-0.61	-1.23	-1.29	-1.26	-1.07	-0.88	-0.79	-0.64
July	-0.64	-0.50	-0.36	-0.43	-0.41	-0.09	+0.32	+0.74	+1.01	+1.60	+1.82	+1.66	+1.13	+0.79	+0.16	-0.24	-0.47	-0.91	-1.33	-0.95	-0.84	-0.68	-0.69	-0.69
Aug.	-0.25	-0.80	-0.58	-0.52	-0.28	-0.51	+0.05	+0.59	+1.08	+2.04	+2.26	+1.81	+1.13	+0.69	+0.11	-0.13	-0.41	-0.86	-0.95	-0.97	-0.99	-0.89	-0.72	-0.90
Sept.	-0.73	-0.86	-0.71	-0.71	-0.78	-0.78	-0.09	+0.06	+0.71	+1.62	+2.27	+2.29	+1.31	+0.70	+0.54	+0.29	-0.03	-0.08	-0.45	-0.63	-0.63	-1.35	-0.93	-1.03
Oct.	-0.92	-0.81	-0.65	-0.97	-0.73	-0.93	-0.42	-0.03	+0.46	+1.23	+1.64	+1.41	+1.07	+0.75	+0.79	+0.55	+0.58	+0.45	+0.10	-0.32	-0.82	-0.90	-0.80	-0.71
Nov.	-0.65	-0.35	-0.52	-0.59	-0.81	-1.04	-0.83	-0.54	+0.17	+0.53	+0.87	+0.83	+0.89	+0.68	+0.68	+0.69	+0.52	+0.22	+0.33	+0.17	+0.01	+0.03	-0.59	-0.68
Dec.	-0.15	-0.14	-0.21	-0.31	-0.45	-0.82	-1.04	-0.84	-0.59	-0.10	+0.02	+0.09	+0.27	+0.40	+0.56	+0.57	+0.79	+0.67	+0.69	+0.41	+0.37	+0.22	-0.13	-0.28
Year	-0.56	-0.47	-0.40	-0.51	-0.50	-0.55	-0.31	+0.01	+0.43	+1.03	+1.37	+1.32	+0.97	+0.60	+0.35	+0.15	+0.03	-0.21	-0.37	-0.40	-0.42	-0.46	-0.50	-0.59
Winter	-0.28	-0.19	-0.27	-0.39	-0.55	-0.80	-0.83	-0.69	-0.34	+0.07	+0.40	+0.58	+0.49	+0.39	+0.38	+0.36	+0.43	+0.38	+0.42	+0.31	+0.27	+0.16	-0.09	-0.20
Equinox	-0.74	-0.59	-0.51	-0.72	-0.70	-0.71	-0.36	-0.09	+0.41	+1.23	+1.73	+1.68	+1.16	+0.68	+0.47	+0.27	+0.14	-0.01	-0.30	-0.43	-0.52	-0.68	-0.63	-0.78
Summer	-0.65	-0.64	-0.43	-0.42	-0.26	-0.15	+0.28	+0.81	+1.21	+1.79	+1.97	+1.68	+1.25	+0.73	+0.19	-0.16	-0.46	-1.02	-1.23	-1.10	-1.01	-0.83	-0.77	-0.77

	HORIZONTAL FORCE																							
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	+1.3	-1.6	+0.1	+2.7	+5.5	+8.5	+10.3	+8.6	+6.3	0.0	-5.1	-10.6	-7.3	-3.6	0.0	+0.3	-1.3	-2.9	-2.6	-3.1	-2.9	-0.7	-2.3	+0.4
Feb.	+1.2	+1.5	+0.5	+2.2	+4.2	+6.9	+7.1	+7.4	+4.2	-0.9	-8.4	-12.3	-7.5	-4.3	-2.4	+0.4	+0.2	+1.0	+0.1	+1.1	-0.1	-0.3	+0.2	-2.0
Mar.	+5.8	+2.6	+1.1	+5.6	+7.0	+8.1	+9.0	+5.3	-1.3	-12.0	-19.8	-20.7	-16.2	-7.8	-1.6	+0.7	0.0	+4.0	+8.6	+6.5	+5.0	+1.9	+1.9	+6.3
Apr.	+8.1	-0.4	-0.2	+3.5	+4.5	+2.4	+0.8	-2.2	-8.0	-20.7	-28.9	-29.0	-21.9	-12.4	-3.2	+4.2	+11.1	+14.4	+15.7	+15.3	+13.4	+11.4	+10.7	+11.4
May	+8.8	+6.8	+0.7	+0.9	-0.7	-3.4	-8.9	-16.4	-20.0	-27.3	-30.1	-28.3	-21.9	-9.9	-3.9	+5.1	+12.0	+22.4	+27.2	+24.3	+22.1	+16.1	+13.6	+10.8
June	+10.0	+3.7	+0.9	+2.0	-0.1	-1.3	-5.0	-14.2	-22.4	-28.6	-31.6	-26.9	-24.0	-12.4	-0.1	+6.4	+13.3	+23.8	+25.0	+24.1	+20.3	+16.1	+12.3	+8.7
July	+7.7	+3.9	+1.1	+2.0	+3.0	-1.1	-7.3	-13.2	-17.1	-25.4	-29.5	-28.0	-20.0	-13.3	-1.5	+7.1	+12.5	+20.4	+26.3	+20.4	+17.8	+13.2	+11.3	+9.7
Aug.	-6.8	+2.1	-2.8	-2.8	-5.6	+0.1	-6.1	-12.2	-18.0	-31.0	-34.3	-27.1	-15.4	-5.6	+7.2	+15.5	+19.6	+25.6	+25.5	+23.9	+19.6	+13.9	+8.2	+6.5
Sept.	+3.3	+3.1	-0.2	+0.5	+3.7	+5.9	-1.8	-2.4	-11.2	-23.5	-32.9	-32.4	-17.1	-6.8	-1.2	+4.1	+9.6	+11.6	+16.4	+15.9	+13.9	+20.4	+10.6	+10.5
Oct.	+6.6	+1.9	+0.5	+7.4	+4.9	+9.2	+3.7	-0.8	-7.1	-18.1	-24.3	-20.7	-14.0	-6.6	-4.0	+0.2	+1.1	+2.5	+6.2	+9.9	+13.9	+12.7	+9.1	+5.8
Nov.	+4.5	+0.2	+3.0	+4.3	+7.3	+10.9	+8.5	+5.1	-3.9	-8.0	-12.6	-11.6	-11.0	-6.4	-3.9	-3.3	-0.8	+1.2	+0.5	+1.3	+1.6	-0.2	+7.3	+6.0
Dec.	-1.3	-1.5	+0.1	+1.9	+3.8	+9.2	+12.3	+9.5	+6.3	0.0	-1.3	-1.7	-3.6	-4.0	-5.0	-4.7	-6.9	-5.2	-5.2	-1.4	-2.1	-1.7	+1.3	+1.2
Year	+4.1	+1.9	+0.4	+2.5	+3.1	+4.6	+1.9	-2.1	-7.7	-16.3	-21.6	-20.8	-15.0	-7.8	-1.6	+3.0	+5.9	+9.9	+12.0	+11.5	+10.2	+8.6	+7.0	+6.3
Winter	+1.4	-0.3	+0.9	+2.8	+5.2	+8.9	+9.5	+7.7	+3.2	-2.2	-6.9	-9.1	-7.3	-4.6	-2.8	-1.8	-2.2	-1.5	-1.8	-0.5	-0.9	-0.7	+1.6	+1.4
Equinox	+5.9	+1.8	+0.3	+4.3	+5.0	+6.4	+2.9	0.0	-6.9	-18.6	-26.5	-25.7	-17.3	-8.4	-2.5	+2.3	+5.5	+8.1	+11.7	+11.9	+11.5	+11.6	+8.1	+8.5
Summer	+4.9	+4.1	0.0	+0.5	-0.9	-1.4	-6.8	-14.0	-19.4	-28.1	-31.4	-27.6	-20.3	-10.3	+0.4	+8.5	+14.3	+23.1	+26.0	+23.2	+19.9	+14.8	+11.3	+8.9

DIURNAL INEQUALITIES OF THE GEOGRAPHICAL COMPONENTS OF MAGNETIC FORCE
INTERNATIONAL QUIET DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

152 ESKDALEMUIR

1943

	Hour G.M.T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
NORTH COMPONENT																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	-4.5	-2.3	-2.5	-1.2	-1.5	+0.7	+3.4	+4.7	+4.6	+2.9	-0.6	-4.6	-6.0	-3.6	-1.2	+0.4	-0.6	+3.3	+3.1	+1.9	+1.3	0.0	+0.6	+1.7
Feb.	+1.7	-0.6	+1.4	+3.5	+4.6	+6.1	+8.9	+10.0	+7.2	-2.0	-8.7	-13.5	-13.0	-11.9	-7.4	-5.3	-2.2	-0.5	+1.1	+3.9	+6.6	+5.9	+4.6	
Mar.	+5.3	+4.6	+4.9	+4.8	+5.0	+7.1	+10.7	+9.8	+4.2	-7.6	-19.6	-25.9	-26.1	-17.7	-12.5	-4.1	-0.1	+3.1	+6.8	+9.5	+10.2	+7.2	+9.1	+11.1
Apr.	+3.6	+3.6	+4.1	+3.9	+5.4	+7.3	+9.3	+7.7	+1.5	-13.2	-26.1	-31.3	-28.3	-18.9	-7.1	+0.5	+3.9	+6.8	+10.1	+12.3	+12.1	+11.3	+10.3	+11.0
May	+9.6	+6.8	+4.7	+3.3	+5.4	+5.5	+1.5	-6.5	-12.5	-22.4	-29.3	-28.8	-22.6	-14.8	-6.3	+0.5	+5.3	+13.6	+17.2	+17.4	+14.3	+12.9	+12.1	+13.2
June	+7.1	+4.1	+3.7	+5.6	+7.0	+6.8	+2.7	-4.1	-9.4	-20.5	-26.7	-28.6	-24.2	-14.0	-3.4	+2.9	+9.3	+11.5	+14.4	+14.1	+11.3	+12.0	+9.9	+8.6
July	+5.7	+3.0	+1.9	+4.0	+3.2	+5.8	+4.1	-0.9	-8.8	-16.0	-19.6	-21.9	-23.3	-19.9	-13.1	-5.9	+2.4	+10.6	+15.7	+16.4	+14.7	+14.3	+14.7	+12.9
Aug.	+1.5	+0.1	-2.1	-5.0	+2.8	+4.2	+1.4	-3.9	-8.2	-17.6	-21.6	-18.9	-12.2	-11.4	-4.3	+0.3	+3.3	+8.2	+14.6	+13.5	+15.4	+15.3	+11.4	+12.8
Sept.	+1.8	+0.6	+4.6	+3.4	+3.2	+2.1	+2.5	-0.8	-6.2	-16.3	-21.9	-23.1	-18.9	-12.4	-7.5	-4.3	+0.9	+7.0	+9.7	+12.5	+20.7	+18.5	+13.0	+11.1
Oct.	+2.0	+0.8	+2.6	+2.9	+3.6	+4.8	+5.5	+3.2	-2.6	-13.5	-18.4	-15.1	-9.7	-5.1	-5.1	-3.0	+0.3	+1.5	+0.7	+5.9	+7.4	+11.1	+12.0	+8.3
Nov.	-0.2	-0.8	-1.2	+0.3	+1.0	+4.4	+6.9	+4.7	+1.5	-5.2	-10.3	-12.5	-8.7	-3.8	-0.3	+0.3	+0.9	0.0	+3.0	+4.0	+4.1	+4.6	+4.0	+3.4
Dec.	-4.7	-5.0	-4.7	-1.1	+2.3	+3.5	+5.7	+7.0	+5.3	+2.8	+0.6	-0.1	-1.0	-0.8	-1.5	-3.0	-2.3	-1.6	+0.2	+0.4	+0.5	-0.8	-1.3	-0.2
Year	+2.4	+1.2	+1.5	+2.1	+3.5	+4.8	+5.3	+2.6	-2.0	-10.7	-16.9	-18.7	-16.1	-11.1	-5.8	-1.7	+1.7	+5.3	+7.9	+9.1	+9.7	+9.4	+8.5	+8.2
Winter	-1.9	-2.2	-1.8	+0.4	+1.6	+3.6	+6.2	+6.5	+4.7	-0.4	-4.7	-7.7	-7.2	-5.0	-2.6	-1.9	-1.1	+0.3	+1.4	+1.9	+2.4	+2.6	+2.3	+2.4
Equinox	+3.2	+2.4	+4.1	+3.8	+4.3	+5.3	+7.0	+4.9	-0.8	-12.7	-21.5	-23.8	-20.7	-13.5	-8.1	-2.7	+1.3	+4.6	+6.8	+10.1	+12.6	+12.1	+11.1	+10.4
Summer	+6.0	+3.5	+2.0	+2.0	+4.6	+5.6	+2.4	-3.9	-9.7	-19.1	-24.3	-24.5	-20.6	-15.0	-6.8	-0.6	+5.1	+10.9	+15.4	+15.4	+14.0	+13.6	+12.0	+11.9

WEST COMPONENT																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	-5.1	-2.4	-1.6	-3.4	-2.7	-1.2	-0.8	-2.5	-3.3	-5.1	-0.2	+4.2	+7.2	+11.4	+11.0	+7.7	+5.5	+3.5	+2.1	+0.6	-2.1	-8.8	-8.1	-5.9
Feb.	-4.3	-6.8	-5.2	-5.4	-4.3	-2.3	-1.6	-3.1	-4.6	-7.3	-3.7	+4.9	+13.5	+16.3	+16.5	+10.4	+6.5	+4.7	+0.8	-0.7	-4.8	-8.1	-6.0	-5.3
Mar.	-4.6	-1.4	-0.4	-2.2	-0.7	-4.7	-10.1	-14.6	-18.2	-11.5	+1.3	+12.1	+20.5	+18.5	+16.5	+9.6	+6.3	+4.3	+4.1	+1.5	-2.7	-9.5	-12.1	
Apr.	-3.3	-3.8	-3.8	-4.6	-5.7	-7.7	-11.7	-17.3	-21.3	-21.4	-14.4	-2.0	+12.9	+22.2	+22.7	+18.0	+12.8	+8.5	+6.9	+7.3	+7.4	+4.8	-0.5	-6.1
May	-5.4	-4.2	-3.7	-4.2	-10.9	-17.6	-21.9	-24.0	-23.8	-14.1	-1.6	+10.1	+21.7	+22.8	+19.1	+15.1	+10.8	+7.1	+6.2	+5.1	+4.6	+4.1	+2.8	+1.9
June	-0.5	-4.1	-5.5	-9.1	-13.9	-20.8	-24.1	-27.1	-26.8	-22.7	-11.6	+0.8	+15.0	+22.8	+26.2	+22.3	+17.3	+12.4	+10.0	+9.9	+9.8	+9.3	+7.0	+3.3
July	-1.5	-4.0	-4.3	-9.4	-10.1	-16.3	-21.8	-23.2	-24.4	-18.9	-10.9	+3.1	+14.2	+21.6	+22.5	+18.9	+14.7	+11.8	+10.0	+8.9	+7.9	+6.3	+4.3	+0.6
Aug.	-1.5	-9.3	-8.2	-13.0	-11.3	-16.2	-16.9	-16.3	-15.8	-11.7	-5.1	+7.9	+20.7	+23.4	+23.0	+16.7	+9.5	+6.2	+7.5	+6.8	+6.3	+3.5	-1.5	-4.8
Sept.	-3.4	-2.9	-6.3	-8.1	-8.1	-8.4	-9.6	-13.9	-16.9	-15.0	-6.6	+3.7	+14.9	+21.9	+22.4	+17.5	+10.7	+12.9	+11.0	+9.3	+5.1	-0.1	-15.2	-15.1
Oct.	-3.5	-4.2	-5.1	-4.7	-2.3	-2.6	-4.7	-9.0	-14.0	-13.6	-4.7	+11.0	+17.9	+18.9	+13.7	+8.7	+5.1	+2.0	+1.5	+2.2	+0.1	-3.4	-7.0	-2.3
Nov.	-1.1	-1.4	-1.9	-1.9	-2.5	-0.7	-2.7	-4.2	-6.1	-4.6	-0.5	+7.2	+12.6	+12.8	+8.9	+4.5	+5.2	+5.2	+1.3	-3.8	-6.5	-8.1	-7.0	-4.9
Dec.	-9.4	-3.4	-1.0	-1.5	0.0	0.0	+3.0	+0.7	+0.2	+1.2	+2.9	+5.2	+7.2	+6.5	+4.0	+4.3	+4.1	+4.5	+2.1	-3.5	-6.0	-6.6	-7.0	-7.4
Year	-3.6	-4.0	-3.9	-5.6	-6.1	-7.9	-9.8	-12.5	-14.3	-12.6	-5.7	+4.8	+14.2	+18.4	+17.4	+13.3	+9.3	+7.1	+5.3	+3.8	+2.0	-0.8	-4.0	-4.9
Winter	-4.9	-3.5	-2.4	-3.0	-2.4	-1.1	-0.5	-2.3	-3.5	-3.9	-0.4	+5.4	+10.2	+11.7	+10.1	+6.7	+5.3	+4.5	+1.5	-1.9	-4.9	-7.9	-7.0	-5.9
Equinox	-3.7	-3.1	-3.9	-4.9	-4.6	-4.8	-7.7	-12.6	-16.7	-17.0	-9.3	+3.5	+14.4	+20.9	+19.3	+15.2	+9.6	+7.4	+5.9	+5.7	+3.5	-0.3	-8.0	-8.9
Summer	-2.3	-5.4	-5.4	-9.0	-11.5	-17.7	-21.2	-22.7	-22.7	-16.9	-7.3	+5.5	+17.9	+22.7	+22.7	+18.2	+13.1	+9.4	+8.4	+7.7	+7.2	+5.8	+3.1	+0.2

VERTICAL COMPONENT																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	+1.7	+0.4	-0.3	+0.1	+0.1	-0.6	-1.7	-2.5	-2.3	-3.4	-4.1	-4.5	-4.7	-3.4	+0.7	+2.5	+2.1	+2.0	+1.9	+2.1	+2.5	+5.0	+3.9	+2.5
Feb.	-1.2	-1.9	-2.1	-2.2	-2.3	-1.7	-2.0	-2.7	-1.7	-0.6	-2.7	-5.9	-6.4	-3.1	+1.7	+4.2	+4.5	+5.1	+5.0	+5.5	+4.5	+3.2	+2.1	+0.7
Mar.	+0.9	+0.5	-0.5	-0.3	+0.1	-0.7	-0.1	+0.9	+0.7	-1.5	-6.5	-9.5	-9.1	-6.5	-1.5	+2.5	+5.3	+5.5	+4.5	+3.9	+3.5	+3.7	+4.1	+0.1
Apr.	+2.4	+2.6	+2.9	+3.2	+3.2	+3.0	+3.0	+3.0	+0.7	-1.4	-5.0	-9.4	-11.0	-9.2	-3.9	-0.6	+1.0	+3.0	+2.8	+1.4	+0.9	+3.0	+2.6	+1.8
May	-0.2	-0.3	+0.5	+1.8	+3.5	+4.1	+4.8	+3.7	+1.9	-5.4	-12.5	-15.7	-13.2	-7.3	-2.7	+1.8	+4.9	+6.1	+5.8	+5.9	+4.5	+4.0	+2.7	+1.3
June	+3.1	+1.7	+2.1	+3.3	+3.3	+2.9	+1.7	+0.9	-0.1	-4.5	-8.9	-11.9	-10.1	-8.1	-3.9	-0.3	+3.9	+4.5	+4.7	+4.3	+3.1	+2.9	+2.9	+2.5
July	+2.4	+0.3	+0.8	+0.3	+1.7	+1.6	+2.5	+2.7	+1.0	-1.9	-6.2	-9.9	-8.4	-6.5	-4.0	-1.1	+1.9	+3.2	+3.5	+2.9	+3.6	+3.5	+3.4	+2.7
Aug.	-8.6	-6.6	-7.4	-6.8	-3.4	-1.7	+1.2	+2.8	+2.8	+1.0	-4.4	-7.2	-8.2	-4.2	-0.4	+3.0	+8.0	+8.7	+7.0	+6.4	+5.4	+6.4	+6.0	+0.2
Sept.	-4.0	-2.5	-1.1	+1.8	+1.9	+2.3	+2.0	+1.3	+0.9	-1.4	-4.9	-8.3	-9.8	-6.9	-1.5	+2.6	+6.9	+6.5	+6.2	+7.1	+4.3	+3.4	+1.1	-7.9
Oct.	+0.3	-0.2	+0.8	+1.5	+1.0	+1.0	+0.5	+1.2	+2.4	-1.5	-7.4	-11.8	-11.3	-7.0	-1.8	+2.5	+4.6	+5.6	+6.5	+4.4	+3.6	+3.1	+1.4	+0.6
Nov.	-0.9	-0.7	+0.6	+0.7	+0.1	-0.7	-1.7	-2.3	-1.0	-3.1	-4.1	-3.5	-1.9	-0.7	+2.4	+2.7	+2.5	+2.7	+2.9	+2.1	+2.0	+1.5	+0.7	-0.3
Dec.	+2.5	+1.2	+0.7	-0.5	-1.5	-2.2	-3.5	-4.3	-3.9	-4.2	-3.3	-2.3	-1.3	+0.4	+1.1	+1.5	+1.9	+1.2	+2.9	+2.7	+3.1	+3.4	+3.1	+1.3
Year	-0.1	-0.5	-0.3	+0.2	+0.6	+0.6	+0.6	+0.4	+0.1	-2.3	-5.8	-8.3	-7.9	-5.2	-1.1	+1.8	+4.0	+4.5	+4.5	+4.1	+3.4	+3.6	+2.8	+0.5
Winter	+0.5	-0.3	-0.3	-0.5	-0.9	-1.3	-2.2	-2.9	-2.2	-2.8	-3.5	-4.1	-3.6	-1.7	+1.5	+2.7	+2.7	+2.7	+3.2	+3.1	+3.0	+3.3	+2.5	+1.1
Equinox	-0.1	+0.1	+0.5	+1.5	+1.5	+1.4	+1.3	+1.6	+1.2	-1.5	-5.9	-9.7	-10.3	-7.4	-2.2	+1.7	+4.5	+5.1	+5.0	+4.2	+3.1	+3.3	+2.3	-1.3
Summer	-0.8	-1.2	-1.0	-0.3	+1.3	+1.7	+2.5	+2.5	+1.4	-2.7	-8.0	-11.2	-10.0	-6.5	-2.7	+0.9	+4.7	+5.6	+5.3	+4.9	+4.1	+4.2	+3.7	+1.7

INTERNATIONAL QUIET DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cycle change)

1943

153 ESKDALEUIR

	Hour G.M.T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	DECLINATION (measured positive towards the west)																							
Jan.	-0.82	-0.38	-0.21	-0.64	-0.48	-0.28	-0.32	-0.72	-0.89	-1.16	-0.02	+1.06	+1.74	+2.48	+2.29	+1.54	+1.14	+0.56	+0.28	+0.04	-0.49	-1.78	-1.66	-1.28
Feb.	-0.96	-1.35	-1.12	-1.25	-1.09	-0.74	-0.73	-1.09	-1.26	-1.39	-0.36	+1.61	+3.34	+3.85	+3.68	+2.35	+1.41	+0.98	+0.19	-0.19	-1.16	-1.95	-1.48	-1.29
Mar.	-1.17	-0.49	-0.31	-0.67	-0.67	-0.46	-1.45	-2.49	-3.15	-3.35	-1.45	+1.43	+3.65	+4.97	+4.33	+3.53	+1.95	+1.14	+0.57	+0.41	-0.15	-0.87	-2.33	-2.97
Apr.	-0.83	-0.93	-0.95	-1.11	-1.41	-1.90	-2.79	-3.87	-4.39	-3.75	-1.75	+1.01	+3.89	+5.37	+4.93	+3.63	+2.43	+1.42	+0.95	+0.93	+0.95	+0.47	-0.57	-1.73
May	-1.54	-1.16	-0.96	-1.00	-2.46	-3.82	-4.52	-4.58	-4.26	-1.86	+1.00	+3.36	+5.44	+5.30	+4.16	+3.04	+1.96	+0.84	+0.48	+0.24	+0.28	+0.26	+0.02	-0.22
June	-0.43	-1.02	-1.28	-2.11	-3.14	-4.54	-5.01	-5.32	-5.02	-3.69	-1.14	+1.46	+4.15	+5.26	+5.48	+4.39	+3.10	+2.00	+1.39	+1.38	+1.48	+1.35	+0.98	+0.28
July	-0.56	-0.95	-0.97	-2.10	-2.19	-3.57	-4.62	-4.67	-4.55	-3.12	-1.33	+1.61	+3.94	+5.29	+5.17	+4.12	+2.87	+1.91	+1.32	+1.07	+0.95	+0.64	+0.21	-0.47
Aug.	-0.37	-1.89	-1.57	-2.41	-2.43	-3.49	-3.49	-3.13	-2.85	-1.59	-0.05	+2.45	+4.75	+5.27	+4.87	+3.37	+1.79	+0.89	+0.87	+0.77	+0.59	+0.03	-0.83	-1.55
Sept.	-0.77	-0.62	-1.49	-1.80	-1.80	-1.79	-2.06	-2.78	-3.15	-2.32	-0.35	+1.80	+3.87	+5.02	+4.89	+3.74	+2.14	+2.31	+1.80	+1.34	+0.11	-0.86	-3.67	-3.56
Oct.	-0.79	-0.90	-1.16	-1.09	-0.64	-0.74	-1.21	-1.98	-2.72	-2.15	-0.12	+2.92	+4.07	+4.08	+3.02	+1.91	+1.02	+0.34	+0.27	+0.18	-0.32	-1.19	-1.96	-0.84
Nov.	-0.22	-0.25	-0.32	-0.39	-0.56	-0.35	-0.86	-1.07	-1.30	-0.69	+0.36	+2.03	+2.96	+2.77	+1.82	+0.91	+1.02	+1.05	+0.14	-0.95	-1.50	-1.85	-1.60	-1.15
Dec.	-1.69	-0.47	0.00	-0.25	-0.11	-0.15	+0.35	-0.17	-0.20	+0.11	+0.57	+1.07	+1.51	+1.35	+0.88	+1.01	+0.93	+0.99	+0.41	-0.73	-1.24	-1.31	-1.37	-1.49
Year	-0.85	-0.87	-0.86	-1.23	-1.41	-1.82	-2.23	-2.66	-2.81	-2.08	-0.39	+1.82	+3.61	+4.25	+3.79	+2.79	+1.81	+1.20	+0.72	+0.37	-0.04	-0.59	-1.19	-1.36
Winter	-0.92	-0.61	-0.41	-0.63	-0.56	-0.38	-0.39	-0.76	-0.91	-0.78	+0.14	+1.44	+2.39	+2.61	+2.17	+1.45	+1.13	+0.89	+0.25	-0.46	-1.10	-1.72	-1.53	-1.30
Equinox	-0.89	-0.73	-0.98	-1.17	-1.13	-1.22	-1.88	-2.78	-3.35	-2.89	-0.92	+1.79	+3.87	+4.86	+4.29	+3.20	+1.89	+1.30	+0.90	+0.71	+0.15	-0.61	-2.13	-2.27
Summer	-0.73	-1.25	-1.19	-1.91	-2.55	-3.85	-4.41	-4.43	-4.17	-2.57	-0.38	+2.22	+4.57	+5.28	+4.92	+3.73	+2.43	+1.41	+1.01	+0.87	+0.83	+0.57	+0.09	-0.49

	INCLINATION																							
Jan.	+0.41	+0.20	+0.18	+0.13	+0.14	-0.04	-0.25	-0.33	-0.31	-0.20	-0.06	+0.13	+0.17	-0.02	-0.06	-0.08	+0.01	-0.22	-0.19	-0.08	+0.01	+0.25	+0.18	+0.03
Feb.	-0.08	+0.09	-0.07	-0.21	-0.29	-0.41	-0.61	-0.68	-0.45	+0.22	+0.56	+0.67	+0.49	+0.47	+0.29	+0.30	+0.16	+0.09	+0.14	+0.07	-0.08	-0.24	-0.25	-0.21
Mar.	-0.26	-0.27	-0.33	-0.29	-0.29	-0.47	-0.64	-0.48	-0.04	+0.73	+1.29	+1.45	+1.31	+0.70	+0.51	+0.09	0.00	-0.16	-0.40	-0.59	-0.61	-0.34	-0.36	-0.55
Apr.	-0.13	-0.12	-0.14	-0.11	-0.19	-0.30	-0.37	-0.18	+0.23	+1.14	+1.80	+1.86	+1.40	+0.69	+0.04	-0.31	-0.42	-0.50	-0.70	-0.88	-0.88	-0.74	-0.61	-0.59
May	-0.56	-0.39	-0.24	-0.11	-0.11	-0.01	+0.34	+0.87	+1.22	+1.54	+1.65	+1.36	+0.85	+0.46	+0.07	-0.20	-0.38	-0.85	-1.08	-1.07	-0.90	-0.81	-0.77	-0.86
June	-0.38	-0.17	-0.11	-0.15	-0.17	-0.07	+0.22	+0.69	+1.01	+1.57	+1.71	+1.57	+1.13	+0.39	-0.26	-0.53	-0.77	-0.83	-0.97	-0.97	-0.81	-0.85	-0.68	-0.55
July	-0.30	-0.13	-0.04	-0.12	-0.02	-0.10	+0.11	+0.47	+0.96	+1.28	+1.29	+1.15	+1.12	+0.83	+0.43	+0.09	-0.32	-0.79	-1.09	-1.13	-1.00	-0.94	-0.95	-0.79
Aug.	-0.29	-0.04	+0.07	+0.35	-0.10	-0.08	+0.19	+0.56	+0.84	+1.35	+1.39	+0.95	+0.30	+0.31	-0.06	-0.19	-0.16	-0.42	-0.90	-0.83	-0.97	-0.90	-0.58	-0.77
Sept.	-0.17	-0.06	-0.24	-0.06	-0.05	+0.04	+0.02	+0.29	+0.68	+1.26	+1.41	+1.26	+0.78	+0.33	+0.13	+0.09	-0.05	-0.49	-0.64	-0.78	-1.33	-1.13	-0.61	-0.71
Oct.	-0.07	0.00	-0.07	-0.08	-0.18	-0.25	-0.29	-0.05	+0.44	+1.05	+1.10	+0.54	+0.10	-0.11	+0.09	+0.13	+0.02	+0.01	+0.09	-0.31	-0.40	-0.60	-0.65	-0.50
Nov.	+0.01	+0.06	+0.12	+0.02	-0.03	-0.29	-0.46	-0.31	-0.04	+0.33	+0.59	+0.63	+0.34	+0.04	-0.05	-0.02	-0.07	-0.01	-0.14	-0.16	-0.13	-0.15	-0.15	-0.16
Dec.	+0.51	+0.41	+0.34	+0.08	-0.19	-0.28	-0.51	-0.58	-0.45	-0.31	-0.16	-0.12	-0.07	-0.03	+0.07	+0.17	+0.14	+0.07	+0.03	+0.09	+0.13	+0.23	+0.27	+0.15
Year	-0.11	-0.03	-0.05	-0.05	-0.13	-0.19	-0.19	+0.02	+0.34	+0.83	+1.05	+0.95	+0.66	+0.34	+0.10	-0.04	-0.15	-0.34	-0.49	-0.55	-0.58	-0.52	-0.43	-0.46
Winter	+0.21	+0.19	+0.15	+0.01	-0.09	-0.25	-0.45	-0.47	-0.31	+0.01	+0.23	+0.32	+0.23	+0.11	+0.06	+0.09	+0.06	-0.02	-0.04	-0.02	-0.01	+0.03	+0.01	-0.05
Equinox	-0.16	-0.11	-0.20	-0.14	-0.18	-0.24	-0.32	-0.10	+0.33	+1.05	+1.40	+1.28	+0.90	+0.40	+0.19	-0.01	-0.11	-0.29	-0.41	-0.64	-0.81	-0.71	-0.56	-0.59
Summer	-0.38	-0.19	-0.08	-0.01	-0.10	-0.07	+0.21	+0.65	+1.01	+1.44	+1.51	+1.25	+0.84	+0.49	+0.05	-0.21	-0.41	-0.72	-1.01	-1.00	-0.92	-0.87	-0.74	-0.75

	HORIZONTAL FORCE																							
Jan.	γ -5.5	γ -2.8	γ -2.8	γ -1.9	γ -2.0	γ +0.4	γ +3.1	γ +4.0	γ +3.8	γ +1.7	γ -0.6	γ -3.6	γ -4.3	γ -1.0	γ +1.2	γ +2.1	γ +0.6	γ +4.0	γ +3.5	γ +2.0	γ +0.8	γ -1.9	γ -1.2	γ +0.4
Feb.	γ +0.7	γ -2.1	γ +0.2	γ +2.3	γ +3.5	γ +5.5	γ +8.3	γ +9.1	γ +6.0	γ -3.5	γ -9.3	γ -12.1	γ -9.7	γ -8.1	γ -3.6	γ -2.9	γ -0.7	γ +0.5	γ -0.3	γ +0.9	γ +2.8	γ +4.7	γ +4.5	γ +3.3
Mar.	γ +4.2	γ +4.2	γ +4.7	γ +4.2	γ +4.4	γ +6.8	γ +9.4	γ +7.4	γ +0.9	γ -11.4	γ -21.6	γ -25.0	γ -22.8	γ -12.8	γ -8.1	γ -0.4	γ +2.0	γ +4.4	γ +7.6	γ +10.2	γ +10.3	γ +6.4	γ +6.8	γ +8.2
Apr.	γ +2.8	γ +2.7	γ +3.2	γ +2.8	γ +4.0	γ +5.5	γ +6.6	γ +3.8	γ -3.2	γ -17.5	γ -28.6	γ -31.0	γ -24.8	γ -13.7	γ -2.0	γ +4.4	γ +6.6	γ +8.5	γ +11.4	γ +13.6	γ +13.4	γ +12.1	γ +10.0	γ +9.4
May	γ +8.2	γ +5.7	γ +3.8	γ +2.3	γ +2.9	γ +1.6	γ -3.3	γ -11.5	γ -17.4	γ -24.9	γ -29.0	γ -25.9	γ -17.4	γ -9.5	γ -2.0	γ +3.7	γ +7.5	γ +14.8	γ +18.1	γ +18.1	γ +15.0	γ +13.5	γ +12.4	γ +13.3
June	γ +6.8	γ +3.1	γ +2.4	γ +3.5	γ +3.8	γ +2.1	γ -2.6	γ -9.9	γ -15.0	γ -24.9	γ -28.6	γ -27.7	γ -20.4	γ -8.7	γ +2.4	γ +7.7	γ +12.8	γ +13.9	γ +16.2	γ +15.9	γ +13.2	γ +13.7	γ +11.2	γ +9.1
July	γ +5.3	γ +2.1	γ +0.9	γ +1.9	γ +0.9	γ +2.1	γ -0.7	γ -5.9	γ -13.9	γ -19.7	γ -21.5	γ -20.7	γ -19.7	γ -14.7	γ -7.9	γ -1.7	γ +5.5	γ +12.9	γ +17.5	γ +17.9	γ +16.1	γ +15.3	γ +15.3	γ +12.7
Aug.	γ +1.2	γ -1.9	γ -3.8	γ -7.7	γ +0.3	γ +0.6	γ -2.3	γ -7.3	γ -11.4	γ -19.7	γ -22.2	γ -16.7	γ -7.4	γ -6.1	γ +0.8	γ +3.9	γ +5.3	γ +9.4	γ +15.9	γ +14.7	γ +16.4	γ +15.7	γ +10.8	γ +11.5
Sept.	γ +1.0	γ 0.0	γ +3.1	γ +1.6	γ +1.4	γ +0.2	γ +0.4	γ -3.8	γ -9.7	γ -19.2	γ -22.8	γ -21.8	γ -15.2	γ -7.4	γ -2.5	γ -0.4	γ +3.2	γ +9.6	γ +11.8	γ +14.2	γ +21.3	γ +18.0	γ +9.4	γ +7.6
Oct.	γ +1.2																							

DIURNAL INEQUALITIES OF THE GEOGRAPHICAL COMPONENTS OF MAGNETIC FORCE
INTERNATIONAL DISTURBED DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

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1943

	Hour G. M. T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
NORTH COMPONENT																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	+23.5	+2.7	+1.5	+11.3	+16.1	+20.6	+16.5	+16.3	+12.6	+6.3	-9.2	-28.7	-22.3	-15.4	-5.6	-6.2	-6.3	-18.1	-11.4	-8.0	-6.4	+6.5	+0.2	+3.8
Feb.	+8.7	+10.5	+12.3	+13.6	+13.4	+17.5	+9.9	+8.9	+0.5	+1.9	-14.3	-25.3	-6.7	-1.5	-7.7	-2.3	-3.2	-3.3	-7.8	-6.0	+2.0	-4.9	-1.7	-14.4
Mar.	+10.3	+3.8	+0.1	+14.5	+14.7	+12.0	+9.6	+6.5	-3.2	-17.0	-35.7	-25.5	-17.5	-12.0	-10.6	-1.3	-4.3	+12.4	+23.6	+10.3	+11.6	-1.7	-9.4	+8.7
Apr.	+15.3	-7.1	+3.9	+14.1	+12.3	-4.3	-4.8	-10.6	-16.5	-34.7	-39.0	-36.0	-28.7	-15.0	-1.1	+0.7	+11.2	+19.3	+19.4	+23.8	+15.7	+14.4	+19.3	+28.4
May	+17.2	+16.2	-16.4	+0.9	-8.3	-16.2	-28.7	-20.4	-23.1	-34.6	-37.1	-32.4	-23.3	-4.8	+1.0	+11.1	+22.5	+33.9	+45.9	+28.8	+22.6	+19.7	+19.5	+6.1
June	+11.0	+9.3	+4.0	+10.1	+1.5	-0.4	+0.1	-13.9	-19.8	-33.5	-31.4	-30.6	-33.9	-27.5	-9.5	-0.3	+12.9	+37.0	+32.6	+32.3	+20.6	+11.5	+8.3	+9.6
July	+9.6	+3.1	+4.1	+6.8	+4.7	-9.2	-20.0	-29.9	-25.3	-22.7	-36.0	-28.6	-22.9	-14.8	-9.8	+15.8	+11.3	+22.9	+46.2	+31.4	+25.7	+11.0	+13.4	+13.3
Aug.	-0.6	+22.2	-13.0	-7.7	-37.9	-1.6	-5.8	-4.2	-17.1	-50.7	-66.1	-48.0	-22.0	+3.6	+38.4	+46.9	+42.0	+48.7	+27.7	+31.9	+18.8	+16.7	-4.9	-17.6
Sept.	+12.1	-5.1	+4.7	-7.4	+8.9	+18.0	-0.4	+2.1	-16.1	-34.3	-36.2	-46.3	-28.7	-10.4	-3.1	+7.5	+6.3	+12.0	+21.1	+22.1	+13.2	+38.8	+2.9	+18.3
Oct.	+8.2	+12.3	+12.5	+11.2	-0.2	+11.8	-11.3	-24.3	-31.8	-36.7	-45.9	-29.9	-12.2	-15.1	+3.2	-3.3	+16.4	+20.1	+18.3	+12.1	+39.3	+31.5	+16.6	-2.6
Nov.	+12.7	+1.1	+6.5	+4.9	+11.3	+17.1	+4.8	-1.9	-21.0	-20.5	-19.4	-24.0	-28.4	-8.3	-4.3	-11.8	+2.5	+14.6	+4.5	+15.4	+11.4	+10.1	+10.3	+12.9
Dec.	+4.4	+4.9	+11.0	+7.6	+4.5	+12.8	+24.1	+11.9	+6.7	-9.0	-19.6	-13.8	-17.2	-24.1	-13.9	-14.4	-9.3	-11.5	-13.5	+10.6	+8.0	+9.3	+12.6	+17.8
Year	+11.1	+6.1	+2.6	+6.7	+3.5	+6.5	-0.5	-5.0	-12.9	-23.8	-32.5	-30.8	-21.9	-12.1	-1.9	+3.5	+8.5	+15.7	+17.3	+17.0	+15.2	+13.6	+7.3	+7.1
Winter	+12.4	+4.8	+7.9	+9.3	+11.3	+16.9	+13.8	+8.8	-0.3	-5.4	-15.7	-23.0	-18.6	-12.4	-7.9	-8.6	-4.1	-4.6	-7.0	+3.0	+3.8	+5.2	+5.3	+5.0
Equinox	+11.5	+1.0	+5.3	+8.1	+9.0	+9.3	-1.7	-6.6	-16.9	-30.7	-39.3	-34.4	-21.8	-13.1	-2.9	+0.9	+7.3	+15.9	+20.6	+17.1	+19.9	+20.7	+7.4	+13.2
Summer	+9.3	+12.7	-5.3	+2.5	-10.0	-6.8	-13.6	-17.1	-21.3	-35.3	-42.7	-34.9	-25.6	-10.9	+5.0	+18.4	+22.2	+35.6	+38.1	+31.1	+22.0	+14.7	+9.1	+2.9

WEST COMPONENT																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	-16.1	-7.1	+6.5	+7.8	+9.0	+10.3	+7.6	+12.0	+12.1	+7.3	+4.9	+12.8	+24.5	+27.3	+23.1	+18.1	+26.1	-10.1	-20.4	-18.9	-36.1	-50.9	-33.4	-16.5
Feb.	-12.3	-4.4	-13.6	-14.2	-2.9	-5.3	-0.1	+3.5	+5.8	+5.6	+2.7	+7.0	+19.8	+25.4	+25.2	+18.7	+18.7	+14.4	-1.7	+1.1	-13.7	-22.7	-27.1	-29.9
Mar.	-15.2	-20.0	-12.7	-3.7	-6.4	-5.9	+2.0	-6.4	-8.7	-9.1	+4.7	+17.2	+31.9	+42.2	+43.3	+36.6	+26.9	+16.3	-5.9	-4.1	-49.6	-36.7	-24.1	-12.6
Apr.	-39.5	-23.5	-25.8	-35.0	-12.2	+0.7	+0.5	+0.6	-13.2	-8.7	-0.4	+18.1	+29.6	+33.4	+36.5	+26.4	+22.3	+15.7	+11.5	+1.8	-10.6	-11.4	-11.3	-5.2
May	-8.9	-20.9	-15.7	-15.5	-2.9	+3.3	-3.0	-18.6	-23.3	-13.3	-5.7	+4.3	+17.9	+27.8	+27.8	+25.3	+22.1	+20.2	+13.3	+1.9	-5.1	-2.6	-11.6	-17.0
June	-16.4	-17.2	-12.5	-10.2	-6.6	-3.3	-11.5	-14.0	-17.1	-15.2	-10.7	+3.0	+11.4	+21.5	+24.5	+27.4	+24.0	+12.9	+12.6	+4.8	+2.5	+2.7	-7.1	-5.4
July	-9.9	-12.4	-2.9	-7.0	-12.7	-12.5	-9.7	-14.4	-16.3	-18.1	-14.3	-2.7	+6.3	+20.3	+25.8	+28.1	+28.6	+26.5	+20.8	+9.3	-11.4	-3.9	-9.7	-7.9
Aug.	-19.9	-12.7	+3.4	-5.6	-0.6	+4.0	-4.5	-9.0	-15.3	-8.5	+4.0	+17.3	+32.3	+48.9	+45.5	+27.3	+22.4	+9.1	+1.0	-25.3	-22.1	-49.0	-24.6	-17.9
Sept.	-5.3	+4.9	+1.5	+8.0	+24.9	+18.7	+10.4	+4.0	-3.7	-11.2	-7.1	-0.3	+19.0	+23.5	+27.6	+18.4	+9.0	-8.9	-30.1	-21.6	-16.4	-26.9	-14.5	-23.7
Oct.	-17.9	-3.5	-20.7	-9.5	+7.0	+18.1	+21.9	+12.1	+17.5	+8.0	+7.2	+14.1	+26.7	+25.3	+4.7	+15.5	-22.7	-18.6	-23.8	-17.2	-13.2	-16.8	-20.0	+5.7
Nov.	-6.7	-9.6	+5.8	+12.3	+23.1	+29.0	+25.5	+27.3	+15.6	+16.1	+11.1	+15.3	+7.4	+19.1	+1.1	-7.7	-11.2	-18.4	-19.3	-43.0	-35.8	-33.6	-20.7	-2.8
Dec.	-16.8	-6.5	+5.2	-0.6	+10.0	+9.6	+19.3	+18.1	+16.7	+14.1	+22.7	+19.6	+23.7	+20.2	+18.3	+10.1	-16.9	-36.3	-34.3	-34.8	-29.6	-14.2	-5.7	-11.7
Year	-15.4	-11.1	-6.8	-6.1	+2.5	+5.5	+4.9	+1.3	-2.5	-2.7	+1.6	+10.5	+20.9	+27.9	+25.3	+20.4	+12.4	+1.9	-6.3	-12.2	-20.2	-22.2	-17.5	-12.0
Winter	-12.9	-6.9	+1.0	+1.3	+9.8	+10.9	+13.1	+15.2	+12.6	+10.8	+10.3	+13.7	+18.8	+23.0	+16.9	+9.8	+4.2	-12.6	-18.9	-23.9	-28.8	-30.4	-21.7	-15.2
Equinox	-19.5	-10.5	-14.4	-10.1	+3.3	+7.9	+8.7	+2.6	-2.0	-5.3	+1.1	+12.3	+26.8	+31.1	+28.0	+24.3	+8.9	+1.1	-12.1	-10.3	-22.7	-22.9	-17.5	-8.7
Summer	-13.8	-15.8	-6.9	-9.6	-5.7	-2.1	-7.1	-14.0	-18.0	-13.8	-6.6	+5.5	+16.9	+29.7	+30.9	+27.0	+24.3	+17.2	+11.9	-2.4	-9.0	-13.2	-13.2	-12.1

	VERTICAL COMPONENT																							
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	
Jan.	-19.2	-20.0	-20.4	-20.6	-17.0	-15.5	-14.2	-15.2	-13.6	-13.4	-9.6	-5.4	-6.0	+1.8	+10.6	+14.4	+16.4	+45.9	+44.6	+42.2	+27.6	0.0	-4.8	-8.6
Feb.	-8.2	-10.8	-16.6	-17.0	-21.4	-21.6	-14.2	-11.6	-8.6	-8.6	-4.8	+1.8	-2.4	-2.4	+1.8	+6.8	+10.6	+16.8	+25.0	+30.2	+26.4	+15.6	+9.4	+3.8
Mar.	-27.7	-36.7	-30.3	-21.9	-23.1	-15.2	-7.3	-2.7	+0.5	+1.7	+1.3	+0.7	+2.9	+7.7	+14.7	+23.9	+25.1	+25.0	+28.9	+24.7	+27.3	+9.5	-14.7	-14.3
Apr.	-23.2	-39.1	-56.2	-50.5	-49.4	-47.5	-31.0	-19.1	-9.6	+1.1	+5.4	+9.5	+13.8	+16.9	+23.6	+35.7	+40.4	+46.3	+41.8	+40.5	+33.2	+23.1	+9.2	-14.9
May	-19.0	-33.9	-65.8	-68.1	-50.4	-42.5	-27.6	-13.7	-3.6	+3.9	+3.8	+10.1	+11.8	+19.9	+33.4	+42.5	+45.6	+44.1	+43.6	+41.5	+33.8	+18.1	-6.2	-21.3
June	-18.6	-17.5	-14.2	-14.6	-16.4	-17.3	-12.4	-9.8	-8.2	-6.7	-7.0	-7.8	-3.4	+2.1	+8.6	+15.8	+22.2	+31.3	+32.4	+27.6	+17.4	+5.9	-2.4	-7.0
July	-13.5	-21.6	-30.1	-23.9	-15.9	-12.6	-14.7	-12.9	-11.1	-7.2	-7.1	-8.9	-3.1	+2.2	+9.9	+18.1	+29.1	+32.6	+29.3	+29.1	+26.5	+12.0	+0.7	-6.9
Aug.	-59.6	-46.6	-68.8	-75.2	-85.0	-61.4	-40.4	-32.8	-13.0	-3.0	+5.0	+19.2	+38.0	+57.6	+80.2	+118.6	+104.0	+77.0	+62.0	+47.6	+8.6	-27.2	-32.6	-72.2
Sept.	-33.5	-43.1	-57.7	-60.1	-62.9	-48.4	-27.5	-14.9	-5.3	+6.5	+12.1	+22.9	+35.1	+38.1	+54.9	+61.9	+56.3	+57.0	+47.1	+24.3	+17.7	-15.3	-38.1	-27.1
Oct.	-40.5	-65.8	-47.1	-29.1	-33.7	-30.8	-19.7	-9.3	-5.3	+2.0	+9.1	+13.9	+16.5	+34.6	+56.7	+48.3	+54.9	+48.4	+33.3	+20.9	+3.3	-10.2	-13.1	-37.3
Nov.	-32.9	-22.0	-24.7	-30.6	-39.6	-34.3	-26.8	-19.4	-7.3	+2.4	+8.7	+15.4	+28.5	+25.2	+38.1	+46.6	+37.4	+26.3	+24.8	+16.6	+6.1	0.0	-2.9	-35.6
Dec.	-23.6	-28.6	-23.0	-16.0	-16.4	-17.3	-18.8	-16.0	-12.0	-6.8	-3.6	+2.8	+7.2	+18.4	+26.0	+28.6	+36.2	+38.5	+36.8	+23.2	+11.2	-5.6	-14.8	-26.4
Year	-26.6	-32.1	-37.9	-35.6	-35.9	-30.4	-21.2	-14.8	-8.1	-2.3	+1.1	+6.2	+11.6	+18.5	+29.9	+38.4	+39.9	+40.8	+37.5	+30.7	+19.9	+2.2	-9.2	-22.3
Winter	-21.0	-20.3	-21.2	-21.1	-23.6	-22.2	-18.5	-15.5	-10.4	-6.6	-2.3	+3.7	+6.8	+10.7	+19.1	+24.1	+25.1	+31.9	+32.8	+28.1	+17.8	+2.5	-3.3	-16.7
Equinox	-31.2	-46.2	-47.8	-40.4	-42.3	-35.5	-21.4	-11.5	-4.9	+2.8	+7.0	+11.7	+17.1	+24.3	+37.5	+42.5	+44.2	+44.2	+37.8	+27.6	+20.4	+1.8	-14.2	-23.4
Summer	-27.7	-29.9	-44.7	-45.5	-41.9	-33.5	-23.8	-17.3	-9.0	-3.3	-1.3	+3.1	+10.8	+20.5	+33.0	+48.7	+50.2	+46.3	+41.8	+36.5	+21.6	+2.2	-10.1	-26.9

DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS, DECLINATION, INCLINATION, AND HORIZONTAL FORCE
INTERNATIONAL DISTURBED DAYS

111

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

155 ESKDALEUIR

1943

	Hour G.M.T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	DECLINATION (measured positive towards the west)																							
Jan.	-4.34	-1.57	+1.26	+1.08	+1.10	+1.15	+0.80	+1.70	+1.88	+1.21	+1.40	+3.90	+6.00	+6.25	+4.94	+3.96	+5.60	-1.23	-3.62	-3.48	-7.04	-10.63	-6.80	-3.52
Feb.	-2.88	-1.37	-3.32	-3.50	-1.20	-1.87	-0.46	+0.30	+1.16	+1.05	+1.20	+2.58	+4.32	+5.23	+5.46	+3.90	+3.94	+3.07	0.00	+0.50	-2.88	-4.39	-5.42	-5.42
Mar.	-3.55	-4.23	-2.58	-1.41	-1.97	-1.75	-0.03	-1.59	-1.62	-1.07	+2.57	+4.65	+7.27	+9.11	+9.28	+7.49	+5.65	+2.75	-2.27	-1.29	-10.60	-7.39	-4.47	-2.95
Apr.	-8.73	-4.46	-5.42	-7.75	-3.04	+0.34	+0.31	+0.60	-1.94	-0.21	+1.68	+5.30	+7.31	+7.46	+7.46	+5.33	+4.02	+2.32	+1.47	-0.70	-2.86	-2.97	-3.18	-2.34
May	-2.58	-4.97	-2.45	-3.18	-0.21	+1.41	+0.68	-2.85	-3.69	-1.14	+0.53	+2.33	+4.68	+5.87	+5.61	+4.64	+3.47	+2.57	+0.62	-0.91	-2.05	-1.42	-3.23	-3.73
June	-3.83	-3.92	-2.73	-2.53	-1.41	-0.66	-2.33	-2.21	-2.59	-1.58	-0.75	+1.99	+3.85	+5.62	+5.41	+5.59	+4.29	+0.94	+1.09	-0.49	-0.43	+0.02	-1.81	-1.53
July	-2.45	-2.65	-0.78	-1.73	-2.79	-2.13	-1.07	-1.57	-2.16	-2.65	-1.27	+0.75	+2.31	+4.79	+5.68	+4.99	+5.31	+4.35	+2.15	+0.47	-3.48	-1.29	-2.57	-2.21
Aug.	-4.03	-3.59	+1.28	-0.79	+1.59	+0.89	-0.65	-1.65	-2.34	+0.57	+3.81	+5.69	+7.57	+9.79	+7.52	+3.43	+2.65	-0.35	-1.05	-6.61	-5.36	-10.73	-4.79	-2.85
Sept.	-1.63	+1.22	+0.09	+1.95	+4.65	+3.00	+2.13	+0.71	-0.03	-0.74	+0.19	+2.03	+5.15	+5.24	+5.75	+3.41	+1.55	-2.36	-7.07	-5.39	-3.93	-7.22	-3.07	-5.63
Oct.	-4.01	-1.26	-4.77	-2.43	+1.43	+3.14	+4.97	+3.55	+4.99	+3.28	+3.53	+4.21	+5.97	+5.82	+0.81	+3.31	-5.35	-4.68	-5.65	-4.05	-4.65	-4.82	-4.81	+1.47
Nov.	-1.95	-2.01	+0.89	+2.29	+4.19	+5.13	+4.99	+5.65	+4.13	+4.21	+3.15	+4.19	+2.79	+4.27	+0.41	-1.03	-2.39	-4.41	-4.13	-9.45	-7.81	-7.29	-4.67	-1.15
Dec.	-3.61	-1.53	+0.56	-0.47	+1.83	+1.37	+2.83	+3.15	+3.10	+3.27	+5.49	+4.61	+5.59	+5.19	+4.34	+2.69	-3.01	-6.87	-6.37	-7.55	-6.38	-3.31	-1.73	-3.19
Year	-3.63	-2.53	-1.50	-1.54	+0.35	+0.83	+1.01	+0.48	+0.07	+0.52	+1.79	+3.52	+5.23	+6.22	+5.22	+3.98	+2.14	-0.33	-2.07	-3.24	-4.79	-5.12	-3.88	-2.75
Winter	-3.19	-1.62	-0.15	-0.15	+1.48	+1.45	+2.04	+2.70	+2.57	+2.43	+2.81	+3.82	+4.67	+5.23	+3.79	+2.38	+1.03	-2.36	-3.53	-4.99	-6.03	-6.41	-4.65	-3.32
Equinox	-4.48	-2.18	-3.17	-2.41	+0.27	+1.18	+1.85	+0.82	+0.35	+0.31	+1.99	+4.05	+6.43	+6.91	+5.83	+4.89	+1.47	-0.49	-3.38	-2.86	-5.51	-5.60	-3.88	-2.36
Summer	-3.22	-3.78	-1.17	-2.06	-0.71	-0.12	-0.84	-2.07	-2.69	-1.20	+0.58	+2.69	+4.60	+6.52	+6.05	+4.66	+3.93	+1.88	+0.70	-1.89	-2.83	-3.35	-3.10	-2.58

	INCLINATION																							
Jan.	-1.79	-0.57	-0.70	-1.37	-1.61	-1.89	-1.55	-1.62	-1.34	-0.85	+0.29	+1.57	+0.96	+0.66	+0.30	+0.50	+0.44	+2.48	+2.15	+1.85	+1.63	+0.32	+0.36	-0.22
Feb.	-0.59	-0.89	-1.02	-1.11	-1.37	-1.61	-1.00	-0.92	-0.33	-0.42	+0.78	+1.61	+0.09	-0.34	+0.18	+0.05	+0.20	+0.42	+1.16	+1.13	+0.72	+1.04	+0.75	+1.48
Mar.	-1.15	-0.87	-0.58	-1.45	-1.45	-1.08	-0.84	-0.40	+0.35	+1.30	+2.31	+1.45	+0.76	+0.37	+0.43	+0.15	+0.51	-0.43	-0.75	-0.01	+0.64	+0.88	+0.61	-0.75
Apr.	-1.01	-0.16	-1.27	-1.67	-1.86	-0.90	-0.46	+0.21	+1.04	+2.44	+2.71	+2.34	+1.80	+0.92	+0.13	+0.45	-0.06	-0.35	-0.41	-0.59	-0.05	-0.21	-0.88	-2.16
May	-1.47	-1.60	-0.32	-1.52	-0.66	-0.04	+1.25	+1.27	+1.77	+2.57	+2.62	+2.32	+1.57	+0.41	+0.36	-0.05	-0.67	-1.43	-2.13	-0.89	-0.58	-0.81	-1.27	-0.68
June	-0.95	-0.80	-0.43	-0.87	-0.41	-0.35	-0.15	+0.88	+1.35	+2.26	+2.05	+1.77	+1.98	+1.55	+0.48	-0.01	-0.65	-1.85	-1.53	-1.51	-0.96	-0.65	-0.51	-0.73
July	-0.82	-0.56	-0.97	-0.94	-0.51	+0.48	+1.09	+1.86	+1.63	+1.58	+2.40	+1.70	+1.34	+0.74	+0.52	-1.00	-0.44	-1.09	-2.62	-1.48	-0.87	-0.37	-0.72	-0.93
Aug.	-1.15	-2.43	-0.90	-1.28	+0.39	-1.48	-0.56	-0.40	+1.03	+3.38	+4.42	+3.38	+1.92	+0.48	-1.21	-0.54	-0.51	-1.43	-0.30	-0.55	-0.70	-1.06	-0.13	-0.37
Sept.	-1.55	-0.81	-1.76	-1.12	-2.51	-2.66	-0.81	-0.57	+0.98	+2.58	+2.79	+3.62	+2.48	+1.29	+1.17	+0.77	+0.85	+0.75	+0.22	-0.54	-0.19	-2.54	-0.93	-1.53
Oct.	-1.28	-2.39	-1.69	-1.32	-0.92	-1.80	-0.06	+1.19	+1.71	+2.35	+3.14	+2.10	+0.82	+1.49	+1.13	+1.19	+0.61	+0.15	-0.03	-0.03	-2.30	-2.08	-1.13	-0.85
Nov.	-1.56	-0.48	-1.13	-1.26	-2.06	-2.39	-1.35	-0.75	+0.98	+1.18	+1.33	+1.74	+2.47	+0.89	+1.21	+2.05	+0.93	-0.04	+0.60	+0.02	-0.08	-0.17	-0.45	-1.69
Dec.	-0.63	-0.94	-1.37	-0.89	-0.85	-1.41	-2.33	-1.44	-0.98	+0.22	+0.87	+0.70	+0.97	+1.75	+1.30	+1.51	+1.75	+2.24	+2.29	+0.38	+0.18	-0.54	-1.11	-1.66
Year	-1.17	-1.04	-1.01	-1.23	-1.15	-1.26	-0.57	-0.06	+0.68	+1.55	+2.14	+2.03	+1.43	+0.85	+0.50	+0.43	+0.25	-0.05	-0.11	-0.18	-0.21	-0.52	-0.45	-0.84
Winter	-1.15	-0.72	-1.06	-1.16	-1.47	-1.83	-1.56	-1.19	-0.42	+0.03	+0.83	+1.41	+1.12	+0.74	+0.75	+1.02	+0.83	+1.28	+1.55	+0.85	+0.61	+0.16	-0.12	-0.52
Equinox	-1.25	-1.06	-1.33	-1.39	-1.69	-1.61	-0.54	+0.11	+1.02	+2.17	+2.74	+2.37	+1.47	+1.01	+0.71	+0.64	+0.48	+0.03	-0.24	-0.29	-0.47	-0.99	-0.58	-1.32
Summer	-1.10	-1.35	-0.66	-1.15	-0.30	-0.35	+0.41	+0.90	+1.44	+2.45	+2.87	+2.29	+1.70	+0.79	+0.04	-0.40	-0.57	-1.45	-1.65	-1.11	-0.78	-0.72	-0.65	-0.68

	HORIZONTAL FORCE																							
Jan.	+19.5	+1.1	+2.9	+12.7	+17.7	+22.3	+17.7	+18.5	+14.9	+7.7	-7.9	-25.3	-16.5	-9.1	-0.5	-2.1	-0.5	-19.9	-15.5	-11.9	-14.1	-4.7	-7.1	+0.1
Feb.	+5.8	+9.3	+9.0	+10.2	+12.4	+15.9	+9.6	+9.4	+1.8	+3.1	-13.4	-23.2	-2.2	+4.1	-2.0	+1.8	+1.0	-0.1	-8.0	-5.6	-1.0	-9.7	-7.6	-20.6
Mar.	+6.8	-0.6	-2.6	+13.4	+13.0	+10.4	+9.8	+5.0	-5.0	-18.6	-33.8	-21.2	-10.2	-2.6	-1.0	+6.6	+1.6	+15.6	+21.8	+9.2	+0.6	-9.6	-14.4	+5.8
Apr.	+6.4	-12.0	-1.8	+6.2	+9.4	-4.1	-4.6	-10.2	-19.0	-35.8	-38.2	-31.2	-21.6	-7.4	+6.8	+6.4	+15.8	+22.3	+21.4	+23.6	+13.0	+11.6	+16.4	+26.6
May	+14.9	+11.3	-19.4	-2.5	-8.7	-15.1	-28.7	-23.9	-27.6	-36.7	-37.5	-30.7	-18.9	+1.3	+7.0	+16.3	+26.7	+37.5	+47.7	+28.5	+21.0	+18.7	+16.5	+2.3
June	+7.2	+5.4	+1.2	+7.6	0.0	-1.1	-2.4	-16.6	-23.0	-36.0	-33.0	-29.2	-30.6	-22.2	-4.0	+5.6	+17.8	+38.9	+34.6	+32.6	+20.6	+11.8	+6.6	+8.2
July	+7.2	+0.3	+3.4	+5.1	+1.8	-11.7	-21.6	-32.3	-28.2	-26.1	-38.2	-28.5	-21.0	-10.1	-4.0	+21.5	+17.2	+28.1	+49.6	+32.7	+22.6	+9.9	+11.0	+11.3
Aug.	-4.9	+18.9	-12.0	-8.7	-37.1	-0.7	-6.5	-6.1	-20.0	-51.3	-63.7	-43.1	-14.5	+14.1	+47.4	+51.7	+45.9	+49.5	+27.3	+25.7	+13.6	+5.7	-10.1	-21.1
Sept.	+10.7	-3.9	+4.9	-5.5	+14.1	+21.6	+1.9	+2.9	-16.5	-35.9	-36.9	-45.3	-23.9	-5.1	+2.9	+11.3	+8.1	+9.8	+14.1	+16.9	+9.3	+32.1	-0.3	+12.7
Oct.	+4.1	+11.3	+7.7	+8.9	+1.3	+15.4	-6.3	-21.1	-27.3	-34.1	-43.3	-26.1	-6.1	-9.3	+4.1	+0.1	+11.1	+15.6	+12.7	+8.1	+35.3	+27.1	+11.9	-1.1
Nov.	+11.0	-1.0	+7.6	+7.4	+16.0	+22.9	+10.2	+4.0	-17.2	-16.6	-16.6	-20.2	-26.2	-4.0	-4.0	-13.2	0.0	+10.3	+0.2	+5.8	+3.4	+2.6	+5.6	+12.0
Dec.	+0.7	+3.4	+11.9	+7.3	+6.5	+14.6	+27.7	+15.5	+10.1	-5.8	-14.3	-9.3	-11.7	-19.2	-9.7	-11.9	-12.7	-19.0	-20.5	+2.9	+1.5	+6.0	+11.1	+14.9
Year	+7.5	+3.6	+1.1	+5.2	+3.9	+7.5	+0.6	-4.6	-13.1	-23.8	-31.4	-27.8	-16.9	-5.8	+3.6	+7.8	+11.0	+15.7	+15.5	+14.0	+10.5	+8.5	+3.3	+4.3
Winter	+9.3	+3.2	+7.9	+9.4	+13.1	+18.9	+16.3	+11.9	+2.4	-2.9	-13.1	-19.5	-14.1	-7.1	-4.1	-6.3	-3.1	-7.2	-10.9	-2.2	-2.5	-1.5	+0.5	+1.6
Equinox	+7.0	-1.3	+2.1	+5.7	+9.5	+10.8	+0.2	-5.9	-16.9	-31.1	-38.1	-30.9	-15.5	-6.1	+3.2	+6.1	+9.1	+15.8	+17.5	+14.5	+14.5	+15.3	+3.4	+11.0
Summer	+6.1	+9.0	-6.7	+0.4	-11.0	-7.1	-14.8	-19.7	-24.7	-37.5	-43.1	-32.9	-21.3	-4.2	+11.6	+23.8	+26.9	+38.5	+39.8	+29.9	+19.5	+11.5	+6.0	+0.2

RANGE OF MEAN DIURNAL INEQUALITIES FOR THE MONTHS, YEAR AND SEASONS OF 1943
The ranges are derived from the diurnal inequalities printed in Tables 150 to 155

156 ESKDALEMUIR

1943

	All days			Quiet days			Disturbed days			All days			Quiet days			Disturbed days		
	N	W	V	N	W	V	N	W	V	D	I	H	D	I	H	D	I	H
	γ	γ	γ	γ	γ	γ	γ	γ	γ	'	'	γ	'	'	γ	'	'	γ
Jan.	22.1	36.0	18.4	10.7	20.2	9.7	52.2	78.2	66.5	7.81	1.47	20.9	4.26	0.74	9.5	16.88	4.37	47.6
Feb.	22.0	31.6	16.9	23.5	24.6	11.9	42.8	55.3	51.8	6.89	1.37	19.7	5.80	1.35	21.2	10.88	3.22	39.1
Mar.	33.6	46.0	26.1	37.2	38.7	15.0	59.3	92.9	65.6	10.18	1.92	29.7	8.32	2.09	35.3	19.88	3.76	55.6
Apr.	46.8	47.1	34.9	43.6	44.1	14.2	67.4	76.0	102.5	10.24	2.68	44.7	9.76	2.74	44.6	16.19	4.87	64.8
May	56.0	47.8	36.0	46.7	46.8	21.8	83.0	51.1	113.7	9.80	3.19	57.3	10.02	2.73	47.1	10.84	4.75	85.2
June	52.4	51.4	26.9	43.0	53.3	16.6	70.9	44.6	51.0	9.93	3.23	56.6	10.80	2.68	44.8	9.54	4.11	74.9
July	52.3	49.8	30.6	39.7	46.9	13.5	82.2	46.7	62.7	9.89	3.15	55.8	9.96	2.42	39.4	9.16	5.02	87.8
Aug.	59.2	46.8	67.9	37.0	40.3	17.3	114.8	97.9	203.6	9.50	3.25	59.9	8.76	2.36	38.6	20.52	6.85	115.4
Sept.	57.6	40.0	57.3	43.8	39.3	16.9	85.1	57.7	124.8	9.32	3.64	53.3	8.69	2.74	44.1	12.97	6.28	77.4
Oct.	42.3	37.1	53.9	30.4	32.9	18.3	85.2	50.5	122.5	8.60	2.61	38.2	6.80	1.75	29.2	11.62	5.53	78.6
Nov.	24.8	33.7	32.7	19.4	20.9	7.0	45.5	72.0	86.2	7.75	1.93	23.5	4.81	1.09	16.9	15.10	4.86	49.1
Dec.	18.5	32.1	23.4	12.0	16.6	7.7	48.2	60.0	67.1	6.96	1.83	19.2	3.20	1.09	13.6	13.14	4.62	48.2
Year	35.5	32.2	33.5	28.4	32.7	12.8	49.8	50.1	78.7	7.58	1.96	33.6	7.06	1.63	27.6	11.34	3.40	47.1
Winter	20.1	30.7	20.6	14.2	19.6	7.4	39.9	53.4	56.4	6.73	1.41	18.6	4.33	0.79	12.2	11.64	3.38	38.4
Equinox	42.8	37.5	41.6	36.4	37.9	15.4	60.0	54.0	92.0	8.92	2.51	38.4	8.21	2.21	36.1	12.51	4.43	55.6
Summer	54.4	48.6	39.0	39.9	45.4	16.8	80.8	48.9	95.7	9.58	3.20	57.4	9.71	2.52	42.2	10.30	4.52	82.9

NON-CYCLIC CHANGE

157 ESKDALEMUIR

1943

	All days			Quiet days			Disturbed days		
	H	D	V	H	D	V	H	D	V
	γ	'	γ	γ	'	γ	γ	'	γ
Jan.	-0.1	-0.07	+0.1	+5.3	+0.17	-0.6	-9.1	+0.80	-2.4
Feb.	+0.2	+0.02	0.0	+2.9	+0.11	+0.1	-14.4	-1.28	+4.5
Mar.	-0.5	-0.06	-0.4	+2.0	-1.07	-2.0	-6.8	+1.07	+10.2
Apr.	+0.7	-0.08	+0.5	+5.0	-0.50	-1.0	+5.2	+2.66	+2.9
May	+0.6	0.0	+0.2	+3.6	+0.28	+0.2	-12.2	-0.77	-8.3
June	-0.5	+0.15	+0.3	+1.9	+0.39	-1.1	+0.2	+1.66	+3.7
July	-0.4	+0.07	-0.5	+5.8	+0.02	-1.2	-2.0	+0.20	+1.0
Aug.	-1.3	+0.05	-1.3	+7.0	-0.80	+1.0	-62.1	-1.72	-44.2
Sept.	+0.2	-0.41	-0.3	+1.6	-1.86	-2.3	-5.9	-2.07	+1.1
Oct.	+0.7	+0.11	+1.7	+3.4	-0.17	-1.2	-2.3	-2.33	-1.1
Nov.	-0.1	+0.67	+0.8	+3.6	-0.01	0.0	+0.4	-0.86	-6.8
Dec.	-0.4	-0.29	-0.7	+1.3	+0.52	-1.2	+4.2	+1.27	-10.9
Year	-0.1	+0.01	0.0	+3.6	-0.24	-0.8	-8.7	-0.11	-4.2
Winter	-0.1	+0.08	+0.1	+3.3	+0.20	-0.4	-4.7	-0.02	-3.9
Equinox	+0.3	-0.11	+0.4	+3.0	-0.90	-1.6	-2.5	-0.17	+3.3
Summer	-0.4	+0.07	-0.3	+4.6	-0.03	-0.3	-19.0	-0.16	-11.9

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

MEAN MONTHLY AND ANNUAL VALUES OF TERRESTRIAL MAGNETIC ELEMENTS

For all, a quiet, q and disturbed, d, days for H, D and V and for all days for N, W, I and T

158 ESKDALEMUIR

1943

	Horizontal force			Declination (west)			Vertical force			North component all days	West component all days	Inclination (north) all days	Total force all days
	a	q	d	a	q	d	a	q	d				
	16,000 γ +			12° +			44,000 γ +						
	γ	γ	γ	'	'	'	γ	γ	γ	γ	γ	°	γ
Jan.	518	525	505	35.0	35.2	34.1	1067	1062	1075	16121	3598	69 52.3	47998
Feb.	521	523	515	34.4	34.5	34.0	1064	1063	1066	16125	3596	69 52.0	47997
Mar.	517	521	510	33.6	33.8	32.4	1063	1063	1055	16122	3592	69 52.2	47995
Apr.	517	524	504	32.8	32.8	32.9	1076	1079	1070	16123	3588	69 52.5	48007
May	520	523	509	32.0	32.0	32.4	1077	1078	1067	16126	3585	69 52.4	48009
June	525	530	521	31.3	30.9	31.9	1079	1081	1081	16132	3583	69 52.1	48013
July	524	526	520	30.9	30.9	31.0	1082	1081	1082	16131	3581	69 52.2	48015
Aug.	510	516	495	30.5	30.4	30.4	1081	1085	1075	16118	3576	69 53.2	48009
Sept.	509	517	497	29.6	29.8	29.4	1080	1081	1081	16118	3571	69 53.2	48008
Oct.	510	520	499	28.7	29.3	29.1	1081	1083	1080	16120	3567	69 53.1	48010
Nov.	511	524	493	27.9	28.4	27.4	1088	1086	1087	16122	3564	69 53.3	48016
Dec.	513	521	500	27.2	27.6	26.8	1095	1092	1099	16124	3561	69 53.3	48023
Year	516	522	506	31.2	31.3	31.0	1078	1078	1077	16124	3580	69 52.6	48008

1943

	North component								West component								Vertical component							
	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
	ALL DAYS																							
Jan.	+3.7	+4.3	-3.7	-1.5	+2.8	-2.2	-0.9	+0.1	-9.9	-0.1	-1.2	+7.2	-0.2	-0.4	+0.8	+2.5	+0.8	-8.2	-2.9	-1.4	-0.3	+0.1	-0.1	-0.2
Feb.	+5.1	+3.4	-4.5	-1.1	+2.5	-1.0	-0.9	+0.7	-10.4	-4.6	-0.9	+5.8	-0.5	-1.1	+0.7	+2.3	+1.5	-7.8	-1.9	-2.1	+0.3	-0.3	-0.4	-0.4
Mar.	+11.4	+1.2	-7.9	-1.1	+2.9	-2.1	0.0	+1.7	-12.0	-7.4	+1.6	+11.4	-0.4	-2.7	+1.9	+2.5	-0.7	-10.4	-6.2	-1.9	+1.0	+0.4	-1.2	-0.4
Apr.	+16.1	-5.0	-10.1	-0.5	+4.1	-1.6	-0.1	+0.3	-10.1	-13.3	+2.0	+8.4	-2.3	-4.7	+1.0	+1.8	-1.6	-13.3	-4.9	-3.9	+2.1	0.0	-0.4	-0.9
May.	+18.5	-11.8	-9.1	+0.2	+1.1	+0.1	+0.8	+1.1	-7.0	-16.6	+2.5	+6.2	-3.3	-1.7	+1.1	+0.9	-2.0	-13.8	-7.0	-3.1	+1.8	-0.6	-0.8	+0.7
June	+17.6	-11.0	-10.2	+1.0	+1.3	-0.5	+1.1	+0.7	-4.5	-19.4	+2.0	+8.6	-2.3	-3.2	+0.7	+0.7	+1.0	-9.3	-6.9	-2.5	+0.4	-0.3	-0.7	-0.3
July	+16.7	-9.5	-9.5	+0.5	+1.2	-0.1	+0.7	+0.1	-6.0	-18.7	+0.7	+10.2	-0.7	-2.6	+0.3	+1.3	+1.1	-12.6	-6.2	-2.9	+1.3	+0.7	-0.2	-0.8
Aug.	+14.0	-15.5	-11.7	+1.7	+1.7	-2.5	-0.1	+1.5	-11.8	-12.1	+2.0	+10.9	-1.8	-4.3	+0.8	+1.6	-14.4	-26.2	-9.6	-1.6	+2.5	+0.5	-1.7	-0.5
Sept.	+16.6	-8.0	-9.7	-0.3	+2.4	-4.1	-0.4	+1.6	-10.3	-6.3	+2.6	+9.1	-0.5	-4.7	-0.2	+1.3	-13.1	-19.5	-7.1	-3.7	+1.6	+0.3	+0.8	+0.1
Oct.	+14.1	-3.7	-7.3	-0.3	+0.4	-3.7	-0.9	+1.2	-10.4	+2.6	+4.5	+5.8	-0.6	-5.1	+1.6	+1.8	-12.7	-16.0	-7.2	-0.5	+2.2	-0.6	-0.2	-0.6
Nov.	+8.7	0.0	-5.0	-0.7	+1.5	-2.5	+1.1	-0.4	-9.0	+9.1	+2.4	+7.1	+0.3	-2.2	+1.6	+1.2	-8.4	-12.5	-2.7	+1.0	+0.2	+0.2	-1.9	-0.1
Dec.	+3.3	+4.8	-2.5	-3.1	+0.5	-2.1	+0.7	+0.7	-10.9	+3.9	+1.4	+4.6	+0.9	-1.3	+0.7	-0.5	-3.1	-11.1	-3.5	+0.1	-1.5	+0.2	-1.1	-0.1
Year	+12.2	-4.2	-7.6	-0.4	+1.9	-1.8	+0.1	+0.8	-9.3	-6.9	+1.7	+8.2	-0.9	-2.8	+0.9	+1.5	-4.3	-13.4	-5.5	-1.9	+0.9	+0.1	-0.6	-0.3
Winter	+5.2	+3.1	-3.9	-1.7	+1.8	-2.0	0.0	+0.3	-10.1	+2.1	+0.4	+6.2	+0.1	-1.3	+1.0	+1.4	-2.3	-9.9	-2.7	-0.6	-0.3	+0.1	-0.9	-0.2
Equinox	+14.5	-3.9	-8.7	-0.6	+2.4	-2.9	-0.4	+1.2	-10.7	-6.1	+2.7	+8.7	-1.0	-4.3	+1.1	+1.8	-7.0	-14.8	-6.3	-2.5	+1.7	0.0	-0.3	-0.4
Summer	+16.7	-12.0	-10.1	+0.9	+1.3	-0.8	+0.6	+0.9	-7.3	-16.7	+1.8	+9.8	-2.0	-2.9	+0.7	+1.1	-3.6	-15.4	-7.4	-2.5	+1.5	+0.1	-0.8	-0.2
	QUIET DAYS																							
Year	+9.6	-1.1	-6.3	-0.8	+2.0	-1.8	-0.3	+0.9	-4.6	-9.9	+2.0	+6.2	-2.4	-2.5	+0.7	+1.7	+2.9	-2.2	-3.3	-0.6	+1.4	-0.1	-0.8	-0.4
Winter	+2.2	+2.2	-3.4	-1.7	+1.6	-1.1	-0.5	+0.6	-5.8	-2.0	+0.2	+4.4	-0.7	-0.7	+1.4	+1.3	+1.8	-2.8	-1.0	+0.1	+0.4	-0.3	-0.6	-0.3
Equinox	+12.3	-0.6	-7.3	-1.3	+2.7	-2.5	-1.2	+1.4	-4.5	-11.4	+0.5	+7.2	-3.3	-3.9	+0.8	+2.6	+3.3	-1.8	-4.3	-0.8	+1.6	+0.4	-1.2	-0.6
Summer	+14.2	-4.9	-8.0	+0.4	+1.6	-1.7	+0.9	+0.7	-3.5	-16.3	+5.3	+7.1	-3.2	-3.0	0.0	+1.0	+3.7	-1.9	-4.6	-1.2	+2.0	-0.4	-0.7	-0.3
	DISTURBED DAYS																							
Year	+15.4	-11.1	-9.7	+1.7	+2.0	-3.2	+0.1	+1.4	-15.9	-1.3	-0.3	+10.0	+0.7	-4.9	+1.9	+0.6	-17.9	-33.3	-7.7	-3.2	+1.3	+1.2	-0.8	+0.6
Winter	+11.0	+4.8	-5.8	-0.7	+2.5	-3.9	-0.7	+0.6	-17.3	+11.2	+1.0	+8.4	+1.9	-2.8	+0.3	+0.9	-9.6	-25.5	-6.3	-1.9	-2.0	+2.0	-0.6	+0.7
Equinox	+18.6	-10.2	-10.8	+3.0	+0.4	-4.7	+0.6	+1.5	-17.7	-0.7	+0.3	+10.1	+0.9	-7.6	+3.1	+1.1	-24.4	-33.3	-7.5	-3.7	+2.2	+0.9	-0.9	+0.4
Summer	+16.5	-27.8	-12.7	+2.7	+3.2	-1.0	+0.3	+2.1	-12.5	-14.3	-2.3	+11.5	-0.7	-4.2	+2.2	-0.3	-19.7	-41.0	-9.3	-4.1	+3.5	+0.7	-1.0	+0.6

HARMONIC COMPONENTS OF THE DIURNAL INEQUALITY OF MAGNETIC FORCE
Values of c_n , a_n in the series $\sum c_n \sin(15nt + a_n)$, t being mean local time, reckoned in hours from midnight

1943

	North component								West component								Vertical component							
	c ₁	α ₁	c ₂	α ₂	c ₃	α ₃	c ₄	α ₄	c ₁	α ₁	c ₂	α ₂	c ₃	α ₃	c ₄	α ₄	c ₁	α ₁	c ₂	α ₂	c ₃	α ₃	c ₄	α ₄
	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°
	ALL DAYS																							
Jan.	5·7	44	4·0	254	3·6	137	0·9	287	9·9	273	7·3	357	0·4	223	2·7	31	8·2	177	3·3	251	0·3	304	0·3	213
Feb.	6·1	59	4·6	262	2·7	122	1·1	321	11·4	249	5·9	357	1·2	215	2·4	29	7·9	172	2·8	227	0·4	146	0·5	235
Mar.	11·5	87	8·0	268	3·5	135	1·7	131	14·1	241	11·5	14	2·7	199	3·1	50	10·4	184	6·5	259	1·1	75	1·3	265
Apr.	16·9	111	10·1	274	4·4	121	0·3	350	16·7	220	8·7	20	5·2	215	2·1	42	13·4	190	6·2	238	2·1	100	1·0	219
May	21·9	126	9·1	278	1·1	96	1·3	48	18·0	206	6·7	29	3·7	252	1·4	63	13·9	192	7·6	253	1·9	118	1·1	327
June	20·8	125	10·3	282	1·5	122	1·3	71	19·9	196	8·9	20	3·9	225	0·9	59	9·3	177	7·3	256	0·5	139	0·7	261
July	19·3	123	9·5	280	1·2	103	0·8	94	19·6	201	10·2	10	2·7	205	1·4	27	12·6	178	6·9	251	1·4	72	0·8	205
Aug.	20·9	141	11·9	285	3·0	155	1·5	8	16·9	228	11·1	17	4·7	212	1·8	39	29·9	212	9·7	267	2·5	88	1·8	268
Sept.	18·4	119	9·7	274	4·7	160	1·7	358	12·0	242	9·5	22	4·8	196	1·3	3	23·5	217	8·0	249	1·6	88	0·8	96
Oct.	14·5	108	7·3	274	3·7	183	1·5	337	10·8	287	7·3	44	5·1	197	2·4	55	20·4	222	7·2	273	2·3	115	0·6	210
Nov.	8·7	93	5·0	269	2·9	158	1·2	120	12·8	319	7·4	25	2·3	181	2·0	65	15·1	217	2·8	297	0·3	51	1·9	280
Dec.	5·8	38	4·0	225	2·1	175	1·0	57	11·6	293	4·8	23	1·6	152	0·9	137	11·5	199	3·5	277	1·5	287	1·1	279
Year	12·9	112	7·6	273	2·6	144	0·8	20	11·6	237	8·4	18	3·0	208	1·7	45	14·1	201	5·8	257	0·9	95	0·7	261
Winter	6·1	63	4·2	253	2·7	147	0·3	18	10·3	285	6·2	10	1·3	184	1·7	47	10·2	196	2·8	263	0·4	291	0·9	271
Equinox	15·0	108	8·7	273	3·8	149	1·3	356	12·3	243	9·1	23	4·4	202	2·1	43	16·3	209	6·8	255	1·7	99	0·5	228
Summer	20·6	129	10·2	281	1·5	130	1·1	49	18·2	207	9·9	17	3·6	224	1·3	46	15·9	196	7·9	257	1·5	96	0·9	269
	QUIET DAYS																							
Year	9·6	100	6·3	169	2·7	141	1·0	358	10·9	208	6·5	24	3·5	233	1·8	37	3·7	130	3·4	266	1·4	106	0·9	258
Winter	3·1	48	3·8	250	1·9	133	0·8	335	6·1	254	4·4	9	1·0	234	1·9	58	3·3	150	1·0	285	0·5	132	0·7	254
Equinox	12·3	96	7·4	266	3·7	142	1·8	333	12·3	205	7·3	11	5·2	230	2·7	30	3·8	122	4·4	265	1·7	87	1·3	258
Summer	15·0	112	8·0	279	2·3	147	1·1	64	16·6	195	8·9	43	4·3	236	1·0	14	4·2	120	4·7	262	2·1	112	0·7	263
	DISTURBED DAYS																							
Year	18·9	129	9·9	286	3·8	157	1·4	17	15·9	268	10·0	5	4·9	181	2·0	85	37·8	211	8·3	254	1·7	55	1·0	317
Winter	12·0	70	5·9	270	4·6	157	0·9	325	20·6	306	8·4	13	3·4	155	0·9	30	27·3	204	6·5	260	2·8	325	0·9	335
Equinox	21·2	122	11·2	292	4·7	184	1·6	35	17·8	271	10·1	8	7·7	183	3·3	83	41·3	219	8·3	250	2·4	77	1·0	306
Summer	32·3	153	12·9	289	3·3	117	2·2	21	19·0	224	11·7	355	4·2	199	2·2	110	45·5	209	10·2	253	3·6	88	1·1	313

KEW

KEW OBSERVATORY

Latitude $51^{\circ}28'N$.
Longitude $0^{\circ}19'W$.
G.M.T. of Local Mean Noon 12h. 1m.

Heights of instruments	above M.S.L. m.	above ground m.
Barometer	10.4	..
Thermometer bulbs	..	3.0
Rain-gauge site	5.5	..
Beckley rain-gauge rim	..	0.53
Sunshine recorder	..	13.3
Pressure-tube anemograph	28	23

INTRODUCTION

Full details of the site, instruments, procedure and tabulation are given in the *Observatories' Year Book* for 1938. Changes and additions only are mentioned here.

METEOROLOGY

NOTES ON THE INSTRUMENTS

Pressure.— The photographic barograph is mounted in the galvanometer room of the underground Seismograph House. It was transferred there on May 15, 1939 from the position in the north room of the basement of the Main Observatory Building which it had occupied since the inception of the record in 1862.

Temperature.— As from January 1943, Kew adopted the practice followed by the other Observatories for the tabulation of hourly readings of temperature from the curves of the Photo-Thermograph i.e. by adjusting the glass scale, so that the readings at the control hours on the trace are made to show general agreement with the corresponding eye readings of the standard control thermometers, and then reading off the temperature equivalent from the curves at the requisite times. This supersedes method (a) set out on page 3 of the General Introduction to the *Observatories' Year Book* for 1938.

Rainfall.— The Jardi rate of rainfall recorder has proved to be unreliable at rates below 6 mm. per hour and such values are omitted from Table 169.

Solar radiation.— The tabulations of the radiation received on a surface perpendicular to the solar beam (Tables 173 and 175) were made on the assumption that the thermopile of the Gorczynski pyrliograph had maintained its sensitivity. Subsequent investigation indicated that a progressive decrease in sensitivity had occurred and that all tabulations from 1938 onwards needed correction. The tabulated values for 1943 should be multiplied by the factor 1.20* from January to July and by 1.23* from August to December.

* STAGG, J.M.; Solar radiation at Kew Observatory. *Geophys. Mem.*, London, 11, No. 86, 1950.

IDENTIFICATION NUMBERS OF INSTRUMENTS IN USE IN 1943

There were no changes in the instruments in use during 1943 except that No. 1876 was broken and was replaced by No. 1884 as the measuring glass for the control rain-gauge.

Thermometer corrections 1943

	No. 788 N.P.L. 1933	No. 738 N.P.L. 1938	M.O. 5 N.P.L. 1913	M.O. 10 N.P.L. 1913	M.O. 18011 N.P.L. 1929
	$^{\circ}\text{F.}$	$^{\circ}\text{F.}$	$^{\circ}\text{A.}$	$^{\circ}\text{A.}$	$^{\circ}\text{F.}$
Certified	2 +0.1	2 +0.2	260 +0.1	260 +0.3	2 0.0
	12 +0.1	12 +0.1	273 0.0	273 +0.1	22 0.0
	32 0.0	32 0.0	280 0.0	280 +0.2	32 0.0
	52 -0.1	52 -0.1	290 0.0	290 +0.1	52 0.0
	72 0.0	72 -0.1	300 0.0	300 0.0	72 0.0
	92 0.0	92 -0.2	310 0.0	316 +0.1	
Applied	0.0	0.0	0.0	+0.1	0.0

NOTES ON THE METEOROLOGICAL SUMMARIES

After the three previous years with their severe winters, 1943 was noticeably milder. The mean temperature for the year 283.9°A. (51.6°F.) was much higher than the average of 282.8°A. (49.6°F.) for the period 1871-1915. January, March, May and October each had mean temperatures 3°F. above average whilst the mean temperature for April 284.6°A. (52.9°F.) was 5.8°F. above the average for the period 1871-1915. There were only 3 days, all in July, on which the maximum temperature in the north-wall screen exceeded 300.0°A. (80.6°F.), the highest reading was 305.5°A. (90.5°F.) registered about 14h. on July 31. There were no "ice days" in 1943 and the lowest temperature in the north-wall screen was 270.8°A. (28.0°F.) occurring about 8h. on December 14. The lowest reading of the grass minimum thermometer was 263.1°A. (14.2°F.) on January 9 and March 8.

The rainfall for the year, 526 mm., was 13 per cent below the average, 606 mm., for the standard period 1881-1915. March with 9 mm., only 20 per cent of average was the driest month and January with 120 mm., 267 per cent of average, was the wettest. The heaviest fall in one day during 1943 was 20 mm. on October 19.

The sunshine for the year, 1416 hours, was 53 hours less than the average for the period 1906-1935. The sunniest month was May with a total of 226 hours.

The highest wind speed recorded in a gust was 32 m./sec. (71 m.p.h.) on January 31. The highest on record is 33 m./sec. (73 m.p.h.) on November 23, 1938.

Diurnal variation of pressure and temperature; harmonic analysis.— Notes on the tables will be found in the *Observatories' Year Book*, 1938.

TABLE A - DIURNAL VARIATION OF BAROMETRIC PRESSURE FOURIER COEFFICIENTS
KEW OBSERVATORY, LONGITUDE 0°19'W.

Values of c_n , α_n in the series $\sum c_n \sin(15nt + \alpha_n)$, t being local mean time reckoned in hours from midnight

	c_1		α_1		c_2		α_2		c_3		α_3		c_4		α_4	
	1943	1871-1926	1943	1871-1926	1943	1871-1926	1943	1871-1926	1943	1871-1926	1943	1871-1926	1943	1871-1926	1943	1871-1926
	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°
January	0.28	0.02	178	315	0.33	0.31	160	151	0.17	0.17	351	346	0.08	0.07	177	202
February	0.22	0.05	199	73	0.46	0.36	155	146	0.11	0.12	350	340	0.06	0.03	64	108
March	0.37	0.11	357	38	0.48	0.40	153	149	0.04	0.07	341	332	0.04	0.04	360	25
April	0.31	0.28	5	31	0.38	0.40	155	151	0.04	0.03	151	185	0.08	0.04	345	353
May	0.32	0.32	18	27	0.33	0.35	147	148	0.10	0.09	145	161	0.01	0.02	342	319
June	0.39	0.30	34	17	0.27	0.32	157	143	0.09	0.09	128	160	0.02	0.01	287	260
July	0.53	0.26	12	16	0.38	0.31	135	140	0.17	0.10	157	153	0.03	0.01	304	281
August	0.07	0.21	29	20	0.30	0.34	146	144	0.11	0.06	161	155	0.07	0.04	353	309
September	0.09	0.12	12	6	0.37	0.40	151	152	0.01	0.01	332	350	0.07	0.04	342	332
October	0.14	0.06	331	76	0.41	0.38	141	160	0.07	0.09	359	359	0.03	0.01	326	22
November	0.22	0.03	81	124	0.34	0.34	173	160	0.14	0.13	1	358	0.02	0.03	136	183
December	0.12	0.08	88	137	0.28	0.31	146	152	0.16	0.15	353	353	0.08	0.07	231	205
Arithmetic mean	0.25	0.15			0.36	0.35			0.10	0.09			0.05	0.03		
Year	0.15	0.14	23	29	0.36	0.35	153	150	0.03	0.03	25	359	0.02	0.01	331	280
Winter	0.13	0.03	149	111	0.35	0.33	158	152	0.15	0.14	354	350	0.03	0.05	176	208
Equinox	0.22	0.14	357	32	0.41	0.39	155	153	0.02	0.04	360	345	0.06	0.03	344	359
Summer	0.32	0.27	21	20	0.32	0.33	145	144	0.10	0.08	149	157	0.03	0.02	331	305

TABLE B - DIURNAL VARIATION OF TEMPERATURE FOURIER COEFFICIENTS
KEW OBSERVATORY, LONGITUDE 0°19'W.

Values of c_n , α_n in the series $\sum c_n \sin(15nt + \alpha_n)$, t being local mean time reckoned in hours from midnight

	c_1		α_1		c_2		α_2		c_3		α_3		c_4		α_4	
	1943	1871-1926	1943	1871-1926	1943	1871-1926	1943	1871-1926	1943	1871-1926	1943	1871-1926	1943	1871-1926	1943	1871-1926
	°A.	°A.	°	°	°A.	°A.	°	°	°A.	°A.	°	°	°A.	°A.	°	°
January	0.99	0.99	220	221	0.42	0.43	49	35	0.13	0.17	182	208	0.01	0.01	21	3
February	2.06	1.53	215	221	0.57	0.57	42	34	0.07	0.12	220	211	0.11	0.06	212	169
March	2.91	2.45	213	222	0.81	0.63	25	40	0.08	0.07	357	334	0.14	0.11	174	197
April	3.12	3.21	221	226	0.33	0.48	49	51	0.29	0.22	23	24	0.08	0.07	185	218
May	3.61	3.72	136	227	0.19	0.15	68	74	0.24	0.31	33	35	0.10	0.04	4	20
June	3.22	3.72	225	226	0.03	0.02	82	84	0.17	0.26	30	35	0.15	0.10	33	33
July	3.38	3.68	216	225	0.42	0.06	281	50	0.53	0.29	61	31	0.31	0.07	271	28
August	3.09	3.54	224	226	0.21	0.34	57	52	0.24	0.30	30	28	0.01	0.03	197	218
September	2.96	3.22	228	228	0.51	0.71	52	49	0.24	0.14	19	24	0.15	0.16	206	213
October	2.08	2.32	225	229	0.77	0.76	35	50	0.11	0.10	164	248	0.09	0.12	225	200
November	1.58	1.39	229	226	0.61	0.57	46	44	0.19	0.18	224	232	0.04	0.02	135	141
December	1.06	0.90	217	226	0.34	0.40	32	41	0.19	0.16	212	215	0.06	0.04	42	38
Arithmetic mean	2.51	2.56			0.44	0.43			0.21	0.19			0.10	0.07		
Year	2.49	2.56	222	226	0.38	0.42	37	45	0.09	0.08	43	17	0.02	0.02	215	195
Winter	1.42	1.20	220	223	0.48	0.49	43	39	0.14	0.15	210	217	0.05	0.01	97	121
Equinox	2.75	2.80	222	226	0.60	0.64	37	47	0.13	0.09	25	4	0.11	0.11	195	207
Summer	3.31	3.67	222	226	0.07	0.14	353	59	0.28	0.29	45	32	0.08	0.04	316	27

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

ATMOSPHERIC ELECTRICITY

No change took place during 1943 in the method and procedures for observing potential gradient, air-earth current and conductivity from those printed in the Introduction for 1938. Details of the change of position of the Kelvin Electrograph in April 1940 and of

the effects on the instrument of the erection of a fire escape in March 1941 are printed in the Introduction for the years in question.

In 1943 the mean value of the air-earth current for the year, allowing equal weight for each month, was 73×10^{-18} amp. cm. $^{-2}$. The mean value of the conductivity for the year was 32×10^{-18} ohm. $^{-1}$ cm. $^{-2}$.

The mean factor for the year for the Kelvin electrograph was 4.38, giving an equivalent height for the collector of 22.8 cm. In 1943 there were 173, 154 and 38 days of electrical character 0, 1, and 2 respectively. The extreme hourly values of potential gradient in Table 183 are 1625 v./m. at 3h. on November 21 and minus 1105 v./m. at 3h. on February 9.

During the following months, when there were not 10 "quiet" calendar days, other spells of 24 hr. were used as indicated.

1943	Calendar days	Other spells	Total
January	8	0	8
November	7	3	10

The *Observatories' Year Book*, 1938 should be consulted for an explanation of the figures in the foregoing paragraphs.

ATMOSPHERIC POLLUTION

During 1943 the highest estimate of pollution was 1.5 mg./m. ^{3} , this value occurring on February 20 from 21h. to 22h. and on October 9 from 10h. to 11h.

There were 30 days on which the pollution reached 1.0 mg./m. ^{3} . The number of hours credited with 1.0 mg./m. ^{3} was 103, of which 23 were recorded during February and 20 during November.

SEISMOLOGY

The Seismological Diary and Table of Microseisms, which were printed in the *Observatories' Year Book* from 1922 to 1939, are now omitted. The distribution of the *Kew Monthly Bulletin* ceased in May 1940* but such seismological data as are available for 1943 are published in the *International Seismological Summary*.

No change took place in instruments or procedure from those printed in the Introduction for 1938 except that the two modified Wood-Anderson seismographs which were put out of commission as an economy measure in May 1942, have not been reinstated.

The Galitzin seismographs were not standardised during 1943.

The total number of shocks recorded during the year was 360. The phases of 106 of these were sufficiently well defined to allow an estimate of the epicentral distance to be computed. No British earthquakes were recorded during the year.

* It was resumed in 1947.

PRESSURE AT STATION LEVEL

Maximum, minimum and daily mean values in millibars for each day 0h. to 24h., G.M.T.
The initial 9 or 10 of the values is omitted, i.e. 1005.61 is printed 05.61

161 KEW OBSERVATORY: h_b (height of barometer cistern above M.S.L.) = 10.4 m.

1943

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	<i>millibars</i>																	
1	10.7	84.1	94.8	98.4	79.7	92.3	41.2	37.2	39.3	24.0	12.1	17.5	18.1	16.2	17.3	06.7	03.3	05.3
2	06.6	94.3	02.1	06.5	95.9	01.0	37.5	30.4	33.5	30.3	24.0	27.9	18.6	16.9	17.6	03.7	96.1	00.5
3	15.7	06.6	13.5	15.0	06.5	10.7	30.5	26.6	29.1	30.3	28.7	29.4	25.6	18.0	20.7	16.5	03.5	08.6
4	15.3	12.1	14.0	25.7	15.0	20.1	27.0	20.1	22.6	29.3	22.6	26.0	26.5	21.6	24.4	19.5	15.9	18.0
5	12.2	10.1	11.3	25.6	13.2	20.5	33.1	22.6	29.1	22.6	06.5	13.9	21.6	05.7	12.6	19.0	15.4	16.7
6	11.8	04.7	07.3	13.2	06.7	08.9	32.8	29.8	31.2	22.9	09.6	18.5	05.7	03.5	04.4	23.5	18.8	20.3
7	10.8	04.5	06.7	29.8	10.6	20.5	32.7	24.2	29.8	22.9	07.8	15.4	05.2	01.0	01.8	24.7	20.5	23.1
8	21.7	10.8	17.2	29.8	04.5	21.5	24.2	16.6	19.1	26.8	20.3	24.1	91.0	76.0	78.9	20.5	16.3	17.5
9	22.2	10.0	18.6	04.5	89.5	95.7	23.6	19.4	22.0	22.3	19.9	21.0	03.8	79.3	94.2	17.5	15.8	16.6
10	10.0	98.9	06.2	09.2	02.6	05.5	23.8	14.9	19.6	24.1	21.5	22.3	03.4	91.9	96.8	19.9	17.3	18.5
11	98.9	86.3	93.8	20.1	09.2	16.5	21.0	13.8	15.6	25.1	23.5	24.3	18.3	01.4	12.6	19.9	16.3	18.1
12	89.2	76.6	80.5	20.1	14.8	17.2	24.1	21.0	22.8	24.4	20.9	22.4	24.3	17.9	21.4	22.9	17.3	19.5
13	95.6	81.4	91.6	27.4	19.4	24.6	23.1	19.3	21.5	24.6	21.6	23.3	25.0	24.0	24.5	22.9	18.0	20.8
14	98.0	76.3	87.0	24.2	14.2	20.2	19.3	15.0	16.9	24.4	20.0	21.9	31.3	24.4	26.5	18.0	11.7	13.9
15	12.0	98.0	05.7	16.1	06.6	11.1	15.0	11.5	13.4	22.4	19.8	20.7	38.7	31.3	35.0	12.2	07.7	09.6
16	12.3	09.4	11.3	35.6	16.0	26.9	19.7	14.8	17.1	25.0	22.4	23.9	40.3	37.5	38.8	14.1	09.2	11.4
17	09.4	04.0	05.8	37.0	34.5	35.6	22.0	19.7	20.7	24.9	18.4	21.9	37.5	30.8	34.1	20.6	14.0	16.9
18	08.7	07.5	07.8	39.2	34.4	36.5	20.4	14.2	17.2	18.5	09.5	13.7	30.8	24.6	27.5	20.3	14.4	17.5
19	07.8	05.8	06.9	39.1	34.4	36.6	15.7	12.8	14.0	16.9	07.9	10.2	24.6	19.6	21.4	15.4	13.8	14.7
20	05.8	00.2	02.7	36.5	34.7	35.6	18.5	15.0	16.5	22.2	16.9	20.3	20.0	18.7	19.3	14.1	09.2	11.4
21	04.8	99.6	02.7	35.8	31.6	34.1	20.0	17.9	18.9	19.7	00.7	10.0	19.8	15.5	17.9	24.3	13.7	18.7
22	03.3	01.5	02.4	31.6	28.2	29.5	19.8	14.5	17.4	09.5	99.0	03.0	15.7	09.6	12.3	26.4	24.3	25.6
23	25.2	03.0	15.0	29.4	27.7	28.4	14.6	06.3	10.4	09.4	02.2	05.4	16.5	12.7	14.9	28.1	24.6	26.1
24	28.5	25.0	26.9	29.2	26.2	27.8	06.3	01.2	03.4	19.6	02.2	14.4	12.7	99.0	03.8	29.0	24.9	27.1
25	25.9	16.0	19.7	26.2	21.1	23.5	03.9	99.2	01.1	15.5	09.3	12.0	17.9	05.1	12.6	25.8	22.2	23.8
26	24.9	19.0	22.2	38.0	25.6	32.8	11.4	03.3	07.0	24.8	09.9	16.4	23.9	17.9	21.3	29.3	25.6	27.2
27	25.7	18.8	23.5	39.1	36.6	37.8	15.2	11.1	12.2	25.0	19.2	22.4	25.9	23.8	24.9	31.3	29.2	30.0
28	18.8	03.5	12.5	40.5	36.8	38.1	22.5	15.2	19.3	19.6	17.4	18.5	27.1	24.2	25.5	30.4	27.8	29.1
29	03.5	95.6	01.3				22.3	10.1	16.8	20.0	14.0	17.8	24.5	17.5	21.0	29.0	24.6	26.9
30	95.7	86.8	91.1				12.0	07.4	10.0	16.2	12.3	13.6	17.5	13.0	14.5	25.5	22.1	23.7
31	95.7	80.4	86.7				14.6	07.4	11.5				15.1	05.4	10.9			
Mean	10.54	00.99	06.09	25.81	17.01	21.77	21.54	15.89	18.68	22.10	14.67	18.39	20.22	12.64	16.43	21.03	16.45	18.56

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	millibars																	
1	23.3	20.7	22.0	08.9	05.9	06.9	17.8	11.9	14.5	18.1	14.9	16.5	14.0	10.0	11.6	22.5	15.3	20.8
2	23.9	19.8	22.1	12.5	08.7	10.7	19.4	12.0	15.7	25.4	14.3	19.3	21.8	13.6	16.4	15.3	02.2	05.2
3	22.5	20.0	21.3	12.4	10.1	11.3	22.7	19.4	21.2	27.2	21.5	24.8	29.6	21.8	25.6	17.4	03.5	11.2
4	20.9	16.1	18.3	11.7	08.0	10.6	22.8	15.7	20.3	21.5	15.2	17.4	32.1	29.6	31.1	21.8	17.4	19.9
5	16.6	09.6	13.4	08.0	99.2	02.8	15.7	10.7	12.6	15.2	08.4	11.9	31.5	19.7	26.6	22.6	21.0	21.8
6	09.7	03.0	05.9	17.1	98.9	08.0	18.1	12.4	14.7	08.8	04.5	06.1	19.9	10.2	12.7	21.1	18.6	19.6
7	08.6	04.5	06.3	19.0	16.9	18.2	18.7	15.8	17.4	20.7	08.8	15.2	20.4	12.7	17.3	19.3	17.5	18.5
8	14.2	08.2	10.1	17.5	09.8	13.1	18.9	15.5	17.2	23.4	19.8	21.4	22.2	19.4	20.2	17.5	15.9	16.5
9	14.7	09.8	12.8	18.4	10.2	14.6	18.6	09.3	15.1	24.8	22.0	23.3	32.3	22.2	27.7	20.4	16.1	17.8
10	14.9	08.4	12.0	17.9	09.1	13.2	12.7	08.1	10.3	22.0	19.7	20.8	32.5	22.5	29.1	26.8	20.3	23.5
11	10.5	08.6	09.5	18.0	08.0	11.1	12.9	10.5	12.0	24.3	20.3	22.3	24.6	19.5	23.1	27.6	24.6	25.8
12	09.6	07.2	08.1	20.3	15.6	18.2	12.0	04.3	08.4	23.8	19.3	21.3	19.5	07.9	12.1	35.4	27.3	31.7
13	19.5	09.0	13.8	15.7	06.4	10.2	05.2	02.0	03.5	19.5	18.5	19.1	07.9	88.4	95.1	35.3	33.0	34.0
14	19.8	16.3	18.4	12.9	06.1	08.4	05.2	01.7	03.5	19.3	17.5	18.5	96.5	89.4	93.3	35.1	33.1	34.3
15	16.3	12.8	14.3	23.0	12.9	19.6	19.6	02.9	15.3	18.0	09.1	14.2	12.4	96.5	04.1	34.4	26.3	30.1
16	20.9	15.5	18.6	23.0	20.8	22.1	21.5	17.2	20.1	09.1	96.9	02.9	15.2	12.4	14.2	26.4	20.6	24.2
17	21.1	15.7	19.0	23.0	14.0	19.7	17.2	12.2	14.0	99.7	92.8	95.9	18.4	15.1	16.3	20.6	09.6	13.8
18	16.2	10.8	12.6	14.2	09.7	12.0	18.3	14.5	16.2	00.7	96.8	99.4	29.2	18.4	23.3	10.5	97.4	05.1
19	11.1	08.2	09.2	14.7	10.7	12.9	20.6	15.8	18.5	98.9	93.8	96.9	33.3	29.2	31.9	07.4	90.8	97.6
20	10.7	08.4	09.6	10.7	05.6	07.9	15.8	11.4	13.1	02.8	97.4	01.0	33.0	27.4	30.9	11.4	07.4	10.3
21	17.7	10.1	13.4	05.6	01.5	03.2	15.2	12.2	13.3	02.4	01.1	01.7	27.4	17.2	22.2	09.3	93.5	00.2
22	20.7	17.6	19.2	11.9	05.3	08.2	23.5	15.2	20.0	06.9	00.0	04.4	17.2	11.0	13.1	05.5	94.2	00.4
23	20.9	19.2	20.1	17.6	11.9	15.0	23.6	18.9	21.3	10.7	00.1	04.4	12.2	92.0	06.0	17.2	04.6	09.0
24	19.2	15.5	17.3	17.7	12.7	16.0	19.0	12.4	15.2	13.7	10.7	12.5	92.0	82.5	85.9	32.1	17.2	25.8
25	16.4	12.4	14.8	13.3	10.0	11.4	12.8	10.5	11.6	14.3	12.3	13.3	06.8	89.3	02.1	34.7	32.0	33.4
26	14.6	12.5	13.5	13.1	06.7	08.9	16.0	10.0	11.7	16.2	12.7	14.2	11.5	06.7	09.0	37.0	34.5	35.9
27	18.1	14.5	16.0	16.4	08.1	12.1	21.4	15.6	19.4	21.1	16.2	18.8	11.4	02.3	07.9	37.9	36.4	37.1
28	21.8	18.0	19.6	16.4	09.8	13.2	15.6	02.3	08.5	23.1	20.8	21.7	08.7	95.4	00.1	37.6	34.8	36.4
29	23.0	20.7	21.8	17.8	10.6	15.1	18.4	15.4	17.2	24.1	21.8	22.8	11.5	06.9	09.3	34.8	26.8	30.4
30	21.6	17.4	19.7	15.9	08.3	10.9	17.7	15.4	16.8	21.8	16.4	19.3	21.9	09.4	14.4	29.1	26.2	27.2
31	17.4	06.0	11.2	18.9	15.7	17.6				16.4	11.1	13.7				30.6	25.4	28.6
Mean	17.30	12.79	14.97	15.60	09.26	12.35	17.23	11.71	14.63	15.93		13.38	18.90	09.95	14.42	24.34	17.53	20.83
									Annual	19.15	12.43	15.82						

PRESSURE AT STATION LEVEL
Monthly and annual means of hourly values in millibars at exact hours, G.M.T.

121

162 KEW OBSERVATORY: $h_b = 10.4$ m.

1943

	Hour G.M.T.																											
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24	Mean		
	millibars																											
Jan.	06.67	06.41	06.30	06.12	05.93	05.81	05.79	05.87	06.12	06.41	06.51	06.58	06.22	05.90	05.65	05.75	05.86	06.08	06.17	06.24	06.15	06.11	06.09	05.93	05.70	06.09		
Feb.	20.86	20.78	20.57	20.34	20.30	20.56	20.72	21.05	21.53	21.81	22.06	22.21	22.11	21.91	21.73	21.74	21.78	22.06	22.46	22.76	22.85	22.99	22.99	23.02	23.00	21.77		
Mar.	19.33	19.24	19.06	18.85	18.80	18.87	19.02	19.25	19.43	19.54	19.44	19.26	18.94	18.55	18.20	17.89	17.67	17.70	17.90	18.16	18.33	18.48	18.51	18.47	18.41	18.68		
Apr.	18.52	18.41	18.36	18.26	18.14	18.24	18.54	18.80	18.87	18.95	18.81	18.62	18.47	18.37	18.09	17.85	17.75	17.74	17.84	18.16	18.31	18.59	18.62	18.71	18.66	18.39		
May	16.95	16.80	16.60	16.45	16.46	16.56	16.72	16.87	16.92	16.90	16.71	16.68	16.45	16.29	16.08	15.93	15.83	15.71	15.77	15.91	16.23	16.49	16.60	16.65	16.61	16.43		
June	18.66	18.56	18.49	18.39	18.38	18.53	18.66	18.84	18.87	18.85	18.69	18.54	18.40	18.23	18.16	18.12	18.12	18.10	18.19	18.42	18.65	19.00	19.17	19.20	19.24	18.56		
July	15.65	15.49	15.33	15.28	15.23	15.28	15.42	15.55	15.63	15.57	15.43	15.25	15.08	14.82	14.64	14.33	14.07	13.89	13.94	14.12	14.46	14.85	15.02	15.15	15.15	14.97		
Aug.	12.41	12.32	12.15	11.94	11.93	12.07	12.25	12.48	12.58	12.57	12.48	12.38	12.37	12.38	12.26	12.15	12.12	12.03	12.05	12.28	12.65	12.81	12.82	12.83	12.74	12.35		
Sept.	14.80	14.73	14.57	14.43	14.26	14.32	14.54	14.76	14.88	15.08	14.98	14.87	14.78	14.65	14.40	14.26	14.14	14.16	14.30	14.57	14.89	14.92	14.85	14.87	14.79	14.63		
Oct.	13.50	13.45	13.33	13.13	13.10	13.18	13.31	13.62	13.84	14.01	13.94	13.84	13.60	13.26	13.05	12.92	12.85	12.94	13.15	13.28	13.48	13.57	13.48	13.39	13.30	13.38		
Nov.	14.57	14.42	14.33	14.23	14.15	14.14	14.18	14.34	14.56	14.68	14.66	14.59	14.23	13.97	13.84	13.84	14.03	14.30	14.58	14.82	14.84	14.93	14.87	14.91	14.92	14.42		
Dec.	20.98	20.92	20.90	20.89	20.67	20.45	20.44	20.58	20.83	21.12	21.23	21.15	20.83	20.59	20.42	20.49	20.54	20.72	20.76	20.94	21.08	21.15	21.13	21.16	21.10	20.83		
Annual	16.03	15.91	15.79	15.65	15.57	15.62	15.75	15.95	16.12	16.24	16.19	16.11	15.90	15.69	15.49	15.38	15.34	15.39	15.50	15.74	15.95	16.09	16.12	16.13	16.07	15.82		

The initial 9 or 10 of the value is omitted, i.e. 1001.42 is printed 01.42.

PRESSURE REDUCED TO MEAN SEA LEVEL
Monthly and annual means of hourly values in millibars at exact hours, G.M.T.

163 KEW OBSERVATORY: $h_b = 10.4$ m.

1943

	Hour G.M.T.																									Mean		
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24			
	millibars																											
Jan.	07.96	07.69	07.59	07.40	07.22	07.09	07.08	07.15	07.41	07.70	07.80	07.86	07.50	07.17	06.92	07.02	07.14	07.36	07.45	07.52	07.43	07.40	07.38	07.22	06.99	07.37		
Feb.	22.16	22.09	21.88	21.65	21.61	21.87	22.03	22.36	22.84	23.11	23.36	23.51	23.41	23.20	23.02	23.03	23.07	23.36	23.76	24.06	24.15	24.29	24.29	24.33	24.30	23.07		
Mar.	20.63	20.54	20.36	20.15	20.10	20.17	20.33	20.55	20.74	20.83	20.73	20.55	20.22	19.83	19.48	19.16	18.95	18.98	19.18	19.45	19.62	19.78	19.81	19.76	19.71	19.98		
Apr.	19.80	19.69	19.64	19.54	19.42	19.53	19.83	20.08	20.15	20.22	20.08	19.89	19.73	19.63	19.35	19.11	19.01	19.00	19.10	19.43	19.78	19.86	19.90	19.98	19.94	19.66		
May	18.23	18.08	17.87	17.73	17.74	17.84	17.99	18.14	18.18	18.16	17.97	17.93	17.70	17.54	17.33	17.18	17.08	16.96	17.02	17.16	17.49	17.76	17.87	17.92	17.88	17.69		
June	19.93	19.83	19.76	19.66	19.65	19.80	19.92	20.10	20.13	20.11	19.94	19.79	19.65	19.47	19.40	19.36	19.37	19.34	19.44	19.66	19.91	20.26	20.43	20.47	20.51	19.82		
July	16.91	16.75	16.59	16.54	16.49	16.54	16.68	16.81	16.87	16.83	16.67	16.48	16.31	16.05	15.87	15.56	15.29	15.11	15.17	15.35	15.69	16.09	16.26	16.39	16.40	16.21		
Aug.	13.65	13.57	13.40	13.19	13.18	13.33	13.50	13.73	13.83	13.81	13.71	13.62	13.60	13.62	13.49	13.38	13.36	13.26	13.28	13.51	13.89	14.05	14.07	14.09	13.99	13.59		
Sept.	16.07	16.00	15.84	15.70	15.53	15.59	15.81	16.02	16.14	16.34	16.23	16.12	16.02	15.89	15.64	15.50	15.38	15.40	15.55	15.83	16.14	16.18	16.11	16.13	16.06	15.88		
Oct.	14.77	14.71	14.61	14.41	14.37	14.45	14.59	14.89	15.12	15.28	15.20	15.10	14.86	14.52	14.31	14.18	14.11	14.20	14.41	14.55	14.75	14.84	14.75	14.66	14.57	14.65		
Nov.	15.86	15.71	15.63	15.53	15.44	15.44	15.47	15.64	15.85	15.97	15.95	15.87	15.51	15.25	15.12	15.12	15.32	15.59	15.87	16.11	16.14	16.22	16.16	16.21	16.21	15.71		
Dec.	22.29	22.23	22.21	22.21	21.98	21.76	21.75	21.89	22.14	22.43	22.54	22.45	22.13	21.89	21.72	21.79	21.85	22.02	22.07	22.25	22.38	22.46	22.44	22.47	22.41	22.14		
Annual	17.31	17.19	17.07	16.93	16.85	16.90	17.03	17.23	17.40	17.51	17.46	17.38	17.17	16.95	16.75	16.64	16.60	16.65	16.77	17.01	17.22	17.37	17.39	17.40	17.35	17.09		

The initial 9 or 10 of the value is omitted, i.e. 1001.42 is printed 01.42.

The monthly and annual values of pressure reduced to mean sea level are computed from the corresponding monthly and annual means of pressure at station level and of temperature. See General Introduction to the Meteorological Tables, 1938.

TEMPERATURE
Monthly and annual means of readings in degrees Absolute at exact hours, G.M.T.

164 KEW OBSERVATORY: North-wall screen: $h_t = 3.0$ m.

1943

	Hour G.M.T.																									
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	degrees													Absolute												
Jan.	78.21	78.13	77.98	77.74	77.65	77.73	77.70	77.74	77.89	78.13	78.62	79.13	79.59	79.98	80.12	80.06	79.77	79.31	79.03	78.78	78.65	78.65	78.61	78.50	78.37	78.66
Feb.	78.24	77.97	77.61	77.33	77.09	76.97	77.17	77.13	77.43	77.88	78.86	79.85	80.79	81.11	81.22	81.32	81.23	80.79	80.29	79.67	79.27	78.87	78.72	78.37	78.15	78.96
Mar.	78.83	78.51	78.22	78.04	77.77	77.45	77.28	77.34	77.83	78.78	80.12	81.07	82.08	82.88	83.38	83.63	83.67	83.27	82.43	81.43	80.55	80.08	79.65	79.27	79.02	80.15
Apr.	82.96	82.49	82.22	81.90	81.69	81.47	81.62	82.44	83.35	84.44	85.37	86.28	86.74	87.28	87.53	87.65	87.81	87.72	86.97	85.97	85.03	84.29	83.69	83.26	82.83	84.59
May	84.15	83.73	83.30	83.10	82.66	82.68	83.48	84.49	85.53	86.64	87.46	88.38	89.09	89.76	89.98	90.14	89.90	89.71	89.16	88.36	87.14	86.26	85.44	84.77	84.29	86.47
June	86.18	85.76	85.48	85.15	84.85	85.26	85.91	86.73	87.66	88.39	89.06	89.96	90.56	91.13	91.40	91.32	91.33	91.20	90.79	90.18	89.01	88.02	87.29	86.65	86.21	88.30
July	88.09	87.54	87.25	86.99	86.83	86.89	87.43	88.28	89.20	90.23	91.16	92.00	92.57	93.18	93.61	93.95	94.09	93.99	93.77	92.73	91.42	90.31	89.60	88.84	88.27	90.42
Aug.	88.37	87.93	87.66	87.31	87.14	87.14	87.45	88.41	89.22	90.15	91.10	91.76	92.35	92.71	93.06	93.33	93.12	92.91	92.49	91.44	90.56	89.78	89.13	88.63	88.19	90.13
Sept.	85.33	84.93	84.81	84.64	84.45	84.35	84.22	85.02	86.04	87.17	88.26	89.07	89.47	89.92	90.23	90.23	90.10	89.80	88.93	87.83	87.06	86.49	86.03	85.71	85.33	87.09
Oct.	83.44	83.24	83.05	82.92	82.84	82.66	82.59	82.69	83.04	83.80	84.66	85.42	86.13	86.92	87.26	87.27	86.88	86.17	85.17	84.62	84.10	83.89	83.73	83.45	83.37	84.41
Nov.	78.74	78.58	78.45	78.42	78.37	78.26	78.21	78.29	78.45	78.89	79.72	80.57	81.24	81.65	81.60	81.47	80.93	80.40	79.91	79.50	79.11	79.02	78.83	78.68	78.44	79.46
Dec.	76.91	76.74	76.61	76.61	76.55	76.60	76.58	76.59	76.63	76.74	77.17	77.81	78.42	78.83	78.95	78.82	78.55	78.26	78.02	77.85	77.68	77.51	77.32	77.12	77.02	77.45
Annual	82.48	82.15	81.91	81.71	81.79	81.80	81.66	82.13	82.04	83.48	84.33	85.14	85.77	86.31	86.56	86.63	86.48	86.16	85.60	84.90	84.16	83.63	83.20	82.80	82.48	83.87

TEMPERATURE

Maximum, minimum and daily mean values in degrees Absolute for each day 0h. to 24h., G.M.T.
The initial 2 or 3 of the values is omitted, i.e. 275.0° is printed 75.0°. Add 0.16° to obtain temperature
in degrees Kelvin where $T(^{\circ}\text{K.}) = t(^{\circ}\text{C.}) + 273.16$

165 KEW OBSERVATORY: North-wall screen: h_t (height of thermometer bulb above ground) = 3.0 m.

1943

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	degrees Absolute																	
1	82.4	77.3	79.6	82.4	78.7	80.6	86.0	77.8	81.6	87.6	83.7	85.9	84.8	78.6	81.5	88.5	84.4	86.6
2	79.3	74.9	76.9	81.8	77.6	79.6	83.6	79.2	81.6	87.3	82.4	83.9	86.9	80.7	83.1	88.0	83.9	85.7
3	77.0	73.4	74.8	81.1	76.4	78.5	80.6	78.1	79.5	90.0	82.1	85.9	87.9	79.9	83.1	89.2	84.2	86.3
4	74.9	71.4	73.2	80.5	74.8	77.4	81.0	75.0	78.2	89.1	78.1	83.6	88.6	79.4	83.9	89.9	81.6	86.0
5	75.7	72.5	74.2	82.2	75.8	79.5	84.3	74.1	78.0	91.1	78.1	84.6	89.9	78.4	84.1	91.1	85.8	88.2
6	78.8	74.2	76.7	82.5	76.8	81.0	83.8	76.2	80.0	84.3	78.4	81.3	85.7	80.4	83.8	91.9	83.5	87.5
7	78.0	74.6	76.2	79.8	73.3	76.5	82.6	75.6	78.4	87.4	77.5	82.1	86.5	77.5	82.5	92.9	81.0	87.1
8	76.6	71.0	73.8	79.0	71.0	76.1	81.5	71.9	77.6	83.6	77.1	80.4	84.0	80.6	82.1	90.2	85.0	88.0
9	74.5	71.2	73.1	79.9	77.2	78.8	82.2	75.2	78.6	84.6	82.4	83.6	85.2	77.1	81.6	96.1	86.8	91.0
10	79.8	74.2	76.8	81.7	77.4	79.2	84.3	73.1	79.1	85.1	82.1	83.4	84.3	80.6	82.8	96.8	86.0	90.7
11	81.8	78.7	80.2	85.2	79.7	82.1	84.4	78.9	81.7	88.3	81.1	84.6	85.4	77.0	82.4	97.2	85.9	91.7
12	81.9	79.1	80.7	85.0	80.2	82.8	82.3	74.3	78.5	87.2	83.1	84.8	89.9	84.4	86.8	92.8	85.1	89.2
13	81.0	77.8	79.4	83.0	78.2	80.4	82.8	76.4	79.1	91.2	78.7	85.3	95.1	84.4	90.0	91.1	83.3	86.8
14	79.8	76.0	78.1	85.9	79.8	82.3	85.2	75.2	79.1	91.7	79.8	85.7	00.3	84.2	93.2	90.2	83.3	86.2
15	81.3	75.3	78.2	82.8	76.9	80.6	85.0	72.5	77.9	94.4	82.6	87.2	91.6	83.1	88.0	88.7	81.8	85.2
16	80.9	72.4	78.0	81.2	75.8	78.1	86.8	71.5	78.5	96.2	80.5	88.7	90.7	80.6	85.7	89.4	81.8	85.1
17	80.6	76.8	78.9	79.9	73.2	77.2	84.6	74.5	79.0	95.9	82.5	89.2	94.8	79.9	87.6	93.6	81.8	87.9
18	81.1	75.2	78.6	85.7	74.6	80.9	86.3	73.1	80.2	94.1	82.9	88.0	91.5	82.9	87.3	88.5	84.7	87.1
19	83.7	79.3	81.1	84.9	72.2	78.1	80.6	76.6	78.4	86.9	80.1	83.4	93.4	84.4	88.7	93.5	87.1	89.6
20	83.9	81.4	82.5	80.6	74.3	78.1	81.5	77.3	79.1	89.2	76.3	82.7	95.3	82.3	89.8	93.3	85.7	89.6
21	83.3	80.8	82.0	79.7	72.5	77.1	80.9	71.0	77.3	88.0	79.3	84.5	96.1	85.4	90.5	94.0	85.0	89.2
22	84.2	80.8	82.5	77.6	74.9	76.4	84.3	76.0	79.4	87.0	80.7	85.5	92.5	84.5	87.9	92.9	82.6	88.5
23	82.4	75.3	80.2	77.8	75.9	76.9	87.1	76.6	80.7	88.8	79.2	84.5	91.3	83.0	86.7	93.6	86.1	89.6
24	80.0	71.8	76.2	84.1	73.3	78.7	87.0	81.0	83.5	86.8	80.7	83.9	87.6	82.2	84.6	96.8	83.9	90.1
25	79.9	78.0	79.2	84.0	73.2	78.3	86.8	81.3	83.5	89.2	82.9	85.9	91.5	82.5	86.2	95.0	86.4	89.8
26	83.2	77.7	80.0	82.3	75.9	78.6	85.5	79.4	82.5	87.4	81.6	84.3	91.4	80.6	87.0	94.8	84.6	90.2
27	81.8	78.0	80.2	83.4	73.3	78.3	86.8	79.3	82.1	87.2	80.3	83.7	94.7	87.0	90.4	93.4	84.9	88.9
28	83.8	81.6	82.7	82.1	74.5	78.9	85.2	77.7	81.0	87.1	80.9	83.6	95.0	85.5	90.0	95.3	84.0	89.1
29	84.1	81.3	82.4				84.7	76.1	81.1	87.0	77.0	83.0	98.0	84.1	90.9	95.4	85.3	89.4
30	82.6	77.4	80.2				88.3	82.6	84.9	86.6	81.9	84.3	94.7	86.6	90.4	93.1	85.3	88.7
31	83.8	77.6	81.4				86.1	82.1	84.6				92.0	83.5	88.1			
Mean	80.7	76.4	78.7	82.0	75.6	79.0	84.3	76.4	80.1	88.7	80.5	84.6	90.9	82.0	86.5	92.6	84.4	88.3

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	degrees Absolute																	
1	96.2	85.6	90.3	95.2	89.7	92.6	91.2	87.0	89.1	89.6	85.8	87.7	87.5	84.9	86.4	80.3	76.0	78.3
2	97.7	84.2	90.6	93.5	88.6	91.0	91.8	84.7	88.2	89.2	80.0	86.3	88.3	82.2	85.9	81.7	73.6	79.3
3	98.4	86.0	91.3	96.8	87.1	91.3	91.4	82.2	87.3	88.2	76.5	82.9	87.6	80.0	84.4	80.1	71.6	76.5
4	97.0	87.3	92.3	94.6	85.3	90.4	94.2	82.5	88.6	88.5	82.7	86.0	85.1	78.9	82.5	79.2	74.8	77.1
5	94.1	88.2	90.8	93.3	87.4	90.3	93.6	87.2	89.9	88.0	85.9	86.9	83.7	79.2	81.9	79.4	73.7	76.7
6	92.5	85.9	88.4	92.1	87.0	89.3	92.4	83.8	88.3	88.4	83.7	86.5	83.5	78.4	81.4	79.1	76.0	77.7
7	92.5	84.3	87.8	91.7	86.5	88.8	90.9	82.8	87.2	87.2	81.6	84.1	80.1	74.9	77.8	79.3	76.1	77.9
8	90.3	84.3	86.9	93.3	86.1	90.0	93.2	83.4	87.8	88.7	78.6	83.5	83.0	72.8	79.3	79.3	76.2	78.0
9	92.7	82.6	87.5	94.9	87.6	91.2	93.9	81.8	88.1	89.4	77.0	83.3	84.9	77.6	81.8	79.1	76.0	77.9
10	89.8	84.0	87.3	95.4	85.9	90.3	94.8	88.8	90.7	90.3	84.3	86.4	84.8	74.2	80.7	78.2	73.8	76.0
11	92.9	87.2	90.0	93.9	83.8	89.3	96.2	87.4	91.5	90.1	80.6	85.0	84.2	78.2	80.7	76.6	73.1	75.1
12	93.7	86.9	90.5	93.1	82.4	88.0	94.9	87.8	91.3	87.8	82.0	85.1	85.3	78.9	82.9	76.4	75.2	75.9
13	92.8	85.2	88.9	93.9	87.5	90.3	95.0	88.0	91.3	89.2	85.0	86.4	83.6	76.6	80.5	78.0	73.8	76.0
14	91.1	84.9	88.2	94.1	86.6	90.3	94.4	85.3	90.3	87.8	83.2	85.3	78.2	74.3	76.2	76.2	70.8	74.1
15	91.9	87.5	89.7	94.0	83.9	88.9	91.6	87.0	88.9	87.1	78.6	82.5	81.1	75.8	78.0	78.6	74.3	76.5
16	96.6	88.0	91.7	98.7	84.0	91.4	91.8	86.6	89.4	89.4	79.0	84.1	77.5	73.9	75.5	76.2	72.9	74.6
17	95.8	86.8	91.2	00.3	86.4	93.0	91.7	84.4	88.0	86.1	80.3	83.8	78.2	73.7	75.7	80.2	71.9	76.2
18	93.2	86.8	89.4	98.3	89.3	93.6	90.3	82.2	85.6	88.1	78.6	83.8	79.9	74.4	76.7	82.6	78.8	80.3
19	94.1	86.7	90.2	96.6	84.5	90.8	90.6	80.4	85.3	88.0	83.6	85.5	80.0	73.2	76.1	82.5	76.7	79.2
20	93.7	86.2	89.9	97.5	86.0	92.3	91.2	83.0	86.7	88.2	80.4	84.9	75.4	72.1	73.6	81.8	76.1	78.8
21	91.7	87.2	89.4	93.2	88.3	90.7	86.2	78.9	83.4	88.1	84.5	85.8	78.4	71.9	76.1	81.2	78.0	79.6
22	93.0	86.1	88.5	93.3	86.1	89.8	86.8	78.1	82.2	88.0	83.3	85.3	81.2	77.4	79.3	80.5	75.6	78.3
23	88.3	85.2	87.0	93.9	84.1	89.0	90.5	76.3	83.7	87.0	80.3	84.2	82.7	74.4	78.3	79.9	72.7	76.7
24	94.0	86.4	89.1	94.8	81.6	88.3	91.5	81.4	86.2	86.7	77.5	82.0	82.2	78.1	80.4	79.5	73.8	76.4
25	98.8	83.9	90.9	93.0	86.8	89.8	86.4	81.8	83.7	87.4	78.1	82.1	80.7	74.8	78.1	80.2	77.1	78.8
26	96.9	86.0	91.5	92.4	85.6	88.5	85.3	77.5	81.5	83.4	77.3	80.5	77.8	71.3	74.9	81.7	79.3	80.4
27	98.8	87.0	92.8	92.0	84.4	87.9	84.9	76.4	81.1	86.1	79.2	81.6	82.0	72.9	77.8	81.7	75.0	80.5
28	99.4	89.3	93.7	90.6	83.3	88.0	87.1	81.5	84.7	86.2	81.8	83.6	86.2	78.5	83.0	78.3	73.1	76.7
29	00.5	88.8	94.5	93.1	88.4	90.5	87.3	83.4	85.3	85.4	82.5	83.8	81.3	77.9	79.0	79.0	76.0	77.5
30	03.3	88.2	95.7	91.5	86.0	89.9	89.9	85.0	87.2	84.5	81.6	82.9	81.2	76.2	79.1	80.0	75.2	77.7
31	05.5	90.8	97.0	93.6	83.3	88.7				87.3	81.2	84.6				79.9	73.2	76.3
Mean	95.1	86.4	90.4	94.3	85.9	90.1	91.0	83.2	87.1	87.7	81.1	84.4	82.2	76.3	79.5	79.6	74.9	77.5
								Annual		87.4	80.3	83.9						

123

166 KEW OBSERVATORY: North-wall screen: $h_t = 3.0$ m.

* Mean of the column.

Monthly and annual means of values at exact hours, G.M.T.

167 KEW OBSERVATORY: $h_f = 3.0$ m.

	Hour	G. M. T.												P. M.												Mean
	C	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24	
													<i>per cent.</i>													
Jan.	88.0	88.3	89.4	89.9	89.9	89.1	88.8	88.5	88.8	88.7	86.6	84.5	81.8	80.5	80.5	81.2	81.8	84.1	86.1	86.7	87.8	87.9	88.1	88.0	88.0	86.5
Feb.	85.0	84.6	86.0	87.1	88.0	87.5	87.8	88.5	86.9	86.3	81.8	76.9	73.4	71.2	71.0	71.3	71.2	73.0	76.1	78.8	81.5	83.1	83.9	84.5	84.7	81.1
Mar.	83.2	84.1	85.3	85.7	86.4	88.0	87.7	87.9	86.4	82.4	75.6	71.5	65.3	62.6	59.6	59.6	59.9	60.9	65.0	69.5	75.6	77.3	79.4	81.5	83.2	75.9
Apr.	75.8	78.4	79.0	80.0	80.1	81.3	81.1	78.2	74.7	69.9	65.9	61.7	60.2	56.6	55.7	54.8	55.1	55.9	57.8	62.1	66.9	71.0	73.6	74.9	75.5	68.8
May	77.6	79.4	81.8	82.7	83.5	83.5	80.7	76.0	71.4	66.2	62.7	58.7	56.5	53.5	52.6	52.7	53.7	54.8	56.5	60.3	64.7	67.6	71.7	74.9	78.2	67.7
June	80.8	82.3	84.0	85.1	86.1	84.7	81.2	77.2	72.3	68.6	65.8	62.4	60.8	57.9	56.4	57.6	57.5	59.0	61.1	63.5	67.6	72.3	76.3	78.5	80.4	70.8
July	79.7	82.3	83.9	84.8	85.4	85.4	83.0	79.1	75.1	70.8	66.2	62.7	60.4	59.2	58.6	57.7	57.2	57.7	57.9	62.7	68.3	72.8	75.1	77.9	80.1	71.0
Aug.	80.2	82.5	84.1	86.0	86.8	86.5	86.2	82.6	78.3	72.7	66.5	61.6	57.7	56.5	54.9	53.3	55.5	57.1	59.3	64.5	69.3	72.9	75.7	77.8	80.2	71.2
Sept.	86.8	87.3	88.7	89.1	90.0	90.7	91.0	89.5	84.9	78.7	72.1	67.1	63.1	60.8	58.6	59.2	60.5	61.6	65.7	72.2	77.3	79.9	83.2	85.4	86.9	76.8
Oct.	92.1	92.6	92.9	93.2	93.5	93.9	94.3	93.6	92.7	91.3	87.7	83.8	79.6	75.7	72.8	72.9	75.3	80.3	84.4	86.9	88.7	90.0	90.8	92.2	92.0	87.1
Nov.	87.9	88.0	89.1	89.0	88.8	89.9	90.1	89.7	88.8	87.9	84.7	79.8	75.5	72.5	73.0	73.9	75.8	77.9	81.1	83.1	84.3	85.0	85.8	87.3	87.6	83.7
Dec.	87.5	88.2	88.5	88.6	89.7	89.9	89.9	89.0	89.5	89.0	87.6	84.9	80.8	78.5	77.2	78.1	80.0	82.0	83.9	84.5	85.7	86.5	86.6	87.5	87.7	85.6
Annual	83.7	84.9	86.1	86.8	87.3	87.5	86.8	85.0	82.5	79.4	75.3	71.3	67.9	65.5	64.3	64.3	65.3	67.0	69.6	72.9	76.5	78.9	80.8	82.5	83.7	77.2

Monthly and annual means of values at exact hours, G.M.T., computed from corresponding mean values of temperature and relative humidity

168 KEW OBSERVATORY: $h_f = 3.0$ m.

	Hour G.M.T.																												Mean*	
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24					
	millibars																													
Jan.	7.8	7.8	7.8	7.7	7.7	7.7	7.5	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.1	8.2	8.1	8.1	8.1	8.0	8.0	8.0	8.0	8.0	7.9	7.9				
Feb.	7.5	7.4	7.3	7.2	7.2	7.1	7.2	7.3	7.3	7.5	7.6	7.6	7.8	7.7	7.7	7.8	7.8	7.7	7.8	7.7	7.8	7.7	7.7	7.6	7.5	7.5				
Mar.	7.7	7.6	7.6	7.5	7.4	7.4	7.3	7.3	7.4	7.6	7.6	7.6	7.5	7.6	7.5	7.6	7.7	7.6	7.7	7.7	7.8	7.8	7.8	7.8	7.6	7.6				
Apr.	9.3	9.3	9.2	9.1	9.0	9.0	9.1	9.2	9.4	9.4	9.5	9.4	9.5	9.2	9.2	9.1	9.3	9.3	9.2	9.3	9.4	9.5	9.5	9.4	9.2	9.3				
May	10.3	10.2	10.3	10.2	10.0	10.1	10.3	10.3	10.4	10.3	10.3	10.3	10.3	10.2	10.2	10.3	10.3	10.4	10.4	10.5	10.4	10.3	10.4	10.4	10.5	10.3				
June	12.3	12.1	12.2	12.0	11.9	12.1	12.1	12.1	12.1	12.0	12.0	12.0	12.1	12.0	11.9	12.1	12.1	12.3	12.5	12.4	12.3	12.3	12.4	12.3	12.2	12.2				
July	13.7	13.6	13.6	13.5	13.5	13.6	13.6	13.7	13.8	13.9	13.8	13.8	13.7	14.0	14.3	14.3	14.3	14.3	14.2	14.4	14.5	14.4	14.2	14.0	13.9	14.0				
Aug.	14.0	14.0	14.0	14.0	14.0	13.9	14.2	14.5	14.5	14.2	13.8	13.3	12.9	13.0	12.9	12.7	13.1	13.3	13.5	13.7	13.9	13.9	13.9	13.8	13.8	13.7				
Sept.	12.5	12.2	12.3	12.2	12.2	12.2	12.1	12.6	12.7	12.7	12.5	12.3	11.9	11.7	11.5	11.6	11.8	11.8	11.9	12.2	12.4	12.5	12.5	12.5	12.5	12.7				
Oct.	11.7	11.6	11.5	11.3	11.3	11.3	11.2	11.3	11.4	11.8	12.0	12.1	12.0	12.0	11.8	11.9	11.9	12.2	12.0	11.9	11.7	11.7	11.7	11.7	11.6	11.7				
Nov.	8.1	8.0	8.0	8.0	7.9	8.0	8.0	8.0	8.0	8.1	8.3	8.3	8.2	8.1	8.2	8.2	8.1	8.0	8.1	8.0	7.9	8.0	7.9	8.0	7.9	8.1				
Dec.	7.1	7.0	7.0	7.0	7.1	7.1	7.1	7.0	7.0	7.1	7.1	7.2	7.3	7.3	7.2	7.2	7.2	7.3	7.3	7.3	7.3	7.3	7.2	7.2	7.1	7.2				
Annual	9.9	9.8	9.8	9.8	9.9	9.9	9.7	9.8	9.5	10.1	10.1	10.1	10.0	10.0	10.0	10.0	10.1	10.1	10.2	10.2	10.1	10.1	10.1	10.0	9.9	10.0				

* Mean of values, 1, 2, ... 23, $\frac{1}{2}(0 + 24)$.

RAINFALL

Amount in millimetres, duration in hours and maximum rate of fall for each day 0h. to 24h., G.M.T.

169 KEW OBSERVATORY: h_r (height of receiving surface above M.S.L.) = height of station above M.S.L. + height of receiving surface above ground = 5.5 m. + 0.53 m.

1943

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate
	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.
1	4.8	4.2	51	10.8	4.9	25	...	...	...	...	...	...	2.0	1.2	8	2.7	1.4	19
2	0.5	0.3	9	0.4	0.5	...	...	...	...	1.0	3.3	...	...	...	...	6.9	2.8	54
3	...	...	...	0.5	0.5	8	...	...	...	...	...	...	...	...	...	0.8	0.5	8
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2.3	3.7	...
5	0.3	0.4	...	0.8	0.9	...	...	...	...	...	...	...	...	...	...	...	...	...
6	12.8	12.6	9	3.3	3.2	21	...	...	...	...	...	...	...	...	...	0.1	0.1	...
7	6.4	5.2	9	...	...	...	...	...	...	0.1	0.1	...	0.1	0.2	...	4.1	4.9	13
8	...	...	...	...	...	...	...	...	...	...	...	...	7.1	4.8	51	0.7	1.5	6
9	0.4	0.8	...	10.5	10.3	7	...	...	...	...	...	...	2.2	1.6	15	...	...	...
10	8.1	5.0	6	4.9	4.0	6	...	...	...	...	...	...	17.3	14.2	77	...	...	...
11	3.5	3.9	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	4.9	5.6	7	...	...	...	...	...	...	0.1	0.1	...	...	...	...	...	...	...
13	3.2	1.7	9	...	...	...	...	...	...	...	...	...	...	...	...	0.3	0.2	12
14	17.2	6.4	12	...	...	...	...	...	...	...	...	...	...	...	...	3.3	0.8	31
15	0.4	0.8	...	4.0	0.8	37	...	...	...	...	...	...	...	...	...	4.5	1.8	23
16	1.0	0.5	7	...	...	...	...	...	...	...	...	...	...	...	...	1.8	0.6	12
17	...	...	...	...	...	...	0.1	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5.1	7.7	20
19	0.4	0.7	...	...	...	...	...	...	...	1.5	1.4	...	...	...	...	...	...	...
20	6.3	3.2	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	3.0	2.6	7	...	...	...	...	...	...	0.6	1.3	...	...	...	...	...	...	...
22	1.3	1.7	7	...	...	...	...	...	...	0.4	0.5	...	0.2	0.4	...	...	...	...
23	1.2	1.5	7	...	...	...	...	...	...	7.9	8.3	22	...	...	...	...	...	...
24	...	...	...	...	...	...	0.6	0.6	...	0.4	1.2	...	14.7	11.5	34	...	...	...
25	3.6	3.2	15	1.3	0.9	7	7.1	7.1	...	1.1	0.8	54	1.2	0.4	23	...	...	...
26	0.1	...	...	...	...	...	...	...	...	0.2	0.1	11	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	0.1	0.3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	2.7	2.7	...	...	...	...	0.8	0.8	...	0.6	1.2	...	...	...	...	...	...	...
30	19.4	8.0	56	...	...	...	...	...	...	4.7	4.9	7	0.1	0.1	6	...	...	...
31	18.6	11.7	77	...	...	...	...	...	...	...	...	...	2.8	0.8	19	...	...	...
Total	120.2	83.0	-	36.5	26.0	-	8.6	8.5	-	18.6	23.2	-	47.7	35.2	-	32.6	26.0	-

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate
	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.
1	...	...	...	5.8	1.8	43	0.6	1.3	...	...	...	...	5.1	11.1	...	0.7	0.4	9
2	...	...	...	...	...	...	2.8	1.8	9	0.5	0.3	7	1.1	1.4	6	8.8	4.8	57
3	...	...	...	...	...	...	...	...	...	...	...	...	0.1	0.0	...	0.4	0.3	6
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	3.4	1.9	16	0.2	0.3	...	...	...	...	...	...	...	...	...	...
6	8.7	1.6	78	1.6	1.2	8	...	...	...	4.9	6.0	9	3.3	3.5	10	...	...	...
7	0.3	0.2	8	0.5	1.2	...	0.5	0.3	11	1.1	2.5	...	...	...	...	...	...	...
8	1.0	1.0	10	...	...	...	...	...	...	...	...	...	0.5	0.6	...	0.1	0.2	...
9	1.0	1.3	...	...	...	...	6.6	3.3	12	...	...	...	...	...	...	...	...	...
10	1.5	2.3	6	0.1	0.2	...	10.4	2.9	70	...	...	...	0.1	0.1	...	...	...	...
11	4.5	4.7	7	0.0	0.1	...	3.8	1.5	11	...	...	...	2.4	1.4	22	0.4	0.5	...
12	...	...	...	...	...	...	18.6	0.8	144	...	...	...	0.1	0.3	...	...	...	...
13	...	...	...	...	0.1	...	0.6	0.8	...	1.0	2.9	...	7.2	5.8	23	...	...	...
14	...	...	...	1.2	2.1	12	1.5	1.3	6	3.6	4.7	6	1.0	2.7	...	...	...	...
15	2.4	2.9	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	0.1	0.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	9.4	7.7	17	...	...	...	...	...	...
18	0.3	0.2	6	...	...	...	...	...	...	0.4	0.6	6	...	...	...	4.1	6.5	6
19	...	...	...	...	...	...	...	...	...	20.2	9.7	148	...	...	...	17.1	8.1	12
20	0.3	0.7	...	...	...	...	0.7	1.1	...	3.0	1.0	50	...	...	...	...	...	...
21	12.9	7.1	37	2.3	4.6	6	...	...	...	4.0	2.6	23	0.5	1.3	...	3.2	3.2	9
22	...	...	...	...	...	...	...	...	...	11.5	3.9	18	2.7	5.3	6	...	...	...
23	...	...	...	4.2	1.2	77	...	...	...	3.7	1.3	29	2.2	1.1	13	...	...	...
24	...	...	...	...	...	...	1.2	0.3	18	...	...	...	0.8	0.8	6	...	...	...
25	...	...	...	2.0	0.6	22	2.3	2.7	7	...	...	...	0.9	0.9	10	...	...	...
26	...	...	...	11.9	6.6	62	...	...	...	...	...	...	0.1	0.0	...	...	...	...
27	...	...	...	...	0.1	...	...	...	...	...	...	...	2.7	5.1	6	0.2	0.3	...
28	...	...	...	1.6	2.1	...	7.0	5.6	11	0.2	...	...	2.2	2.8	14	...	...	...
29	...	...	...	0.1	0.2	...	0.4	1.5	...	...	...	...	0.1	0.1	...	...	...	...
30	...	...	...	0.9	0.8	...	...	...	...	...	...	...	0.1	0.1	...	...	...	...
31	3.7	1.2	90	...	...	...	...	...	...	0.4	1.9	...	...	...	...	0.4	1.0	...
Total	36.7	23.4	-	35.6	24.8	-	57.2	25.5	-	63.9	45.1	-	33.2	44.4	-	35.4	25.3	-

RAINFALL

125

Monthly and annual totals of amounts in sixty-minute periods between exact hours, G.M.T.

170 KEW OBSERVATORY: $h_r = 5.5 \text{ m.} + 0.53 \text{ m.}$

1943

	Hour G.M.T.																								
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	0-24
	<i>millimetres</i>																								
Jan.	5.7	8.6	9.4	10.7	8.4	10.1	6.5	3.8	3.5	2.0	0.9	1.3	1.4	4.1	2.5	4.0	6.9	4.9	5.2	4.9	3.7	4.6	3.3	3.8	120.2
Feb.	0.2	0.2	1.9	1.9	2.6	0.7	1.2	3.9	1.0	0.1	0.1	0.4	0.8	3.4	5.8	1.1	0.7	2.2	...	1.4	4.3	0.1	1.7	0.8	36.5
Mar.	0.1	0.3	0.8	1.7	1.6	1.1	1.2	0.4	0.4	0.1	...	...	...	...	...	...	...	0.8	...	...	0.1	...	...	...	8.6
Apr.	0.5	0.2	...	0.5	0.5	0.8	2.0	0.3	0.3	0.6	1.2	0.6	0.8	2.0	1.3	0.3	0.2	0.2	0.1	0.1	0.6	1.6	1.6	2.3	18.6
May	1.7	0.8	0.9	0.8	5.1	1.5	2.2	2.8	2.9	1.9	4.4	2.4	0.6	1.2	3.4	3.0	3.0	0.8	0.2	0.2	...	4.2	0.4	3.3	47.7
June	1.0	0.2	...	...	...	0.1	...	...	1.9	5.0	1.5	1.9	2.2	0.6	3.3	2.4	1.6	2.5	2.2	2.9	0.9	0.9	0.6	0.9	32.6
July	5.0	5.9	1.8	1.2	0.1	...	...	0.1	...	0.1	0.8	2.2	6.8	1.7	1.1	0.4	0.9	0.8	3.4	0.9	2.2	0.7	0.3	0.3	36.7
Aug.	3.7	5.0	3.2	2.7	1.8	3.1	2.2	2.4	2.0	0.7	0.1	0.2	1.3	0.1	...	3.2	0.4	0.1	1.2	0.6	0.3	0.9	0.1	0.3	35.6
Sept.	4.8	2.5	2.6	2.3	1.2	2.3	0.8	1.1	0.2	...	0.5	0.7	0.3	0.4	...	...	...	0.1	0.1	...	3.7	2.8	19.2	11.6	57.2
Oct.	1.4	5.3	2.4	0.6	1.7	4.3	3.6	1.5	4.5	2.6	1.7	...	0.2	0.7	...	0.5	1.5	1.6	1.8	4.3	5.7	4.8	10.8	2.4	63.9
Nov.	3.1	1.6	1.7	0.3	0.7	2.9	3.3	1.6	3.9	0.4	0.5	0.2	0.5	0.6	0.9	0.8	1.0	1.5	1.6	1.2	0.6	1.5	1.6	1.2	33.2
Dec.	1.0	0.8	2.0	2.4	4.3	5.0	6.1	3.7	3.3	0.3	0.6	0.1	0.4	0.1	0.4	1.2	2.3	1.0	...	...	0.2	0.1	0.1	...	35.4
Annual	28.2	31.4	26.7	25.1	28.0	31.9	29.1	21.6	23.9	13.8	12.3	10.0	15.3	14.9	18.7	16.9	18.5	15.7	16.6	16.5	22.2	22.3	39.7	26.9	526.2

RAINFALL

Monthly and annual totals of duration in sixty-minute periods between exact hours, G.M.T.

171 KEW OBSERVATORY: $h_r = 5.5 \text{ m.} + 0.53 \text{ m.}$

1943

	Hour G.M.T.																								
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	0-24
	hours																								
Jan.	4.0	5.2	5.7	7.1	8.3	7.0	5.3	3.7	2.3	0.9	1.4	1.0	1.5	1.2	0.9	2.3	3.0	4.0	3.9	3.7	3.2	2.3	2.4	2.7	83.0
Feb.	0.3	0.5	2.0	1.4	1.7	1.1	2.0	2.5	1.5	0.1	0.2	1.0	1.0	2.1	2.1	1.3	1.0	1.4	...	0.7	0.9	0.2	0.6	0.4	26.0
Mar.	...	0.5	1.1	1.1	1.1	1.0	1.0	0.7	0.8	0.1	...	...	...	...	...	...	...	...	0.7	0.1	...	0.2	0.1	...	8.5
Apr.	1.7	0.6	...	0.7	1.1	1.4	2.2	0.5	0.7	0.9	1.2	1.1	1.2	1.4	1.4	0.4	0.4	0.4	0.3	0.1	0.8	2.0	1.7	1.0	23.2
May	1.5	1.0	1.5	1.3	2.4	2.0	2.0	2.5	2.1	2.0	2.1	1.6	0.8	1.3	1.5	1.3	1.9	1.8	0.3	0.3	...	1.0	0.8	2.2	35.2
June	1.4	0.3	...	...	...	0.1	...	...	0.8	1.8	1.6	1.9	1.1	0.4	1.9	1.9	1.5	3.3	2.1	1.8	1.6	1.0	0.5	1.0	26.0
July	1.2	1.5	1.8	1.7	0.5	...	...	0.1	...	0.1	1.0	1.2	1.9	1.9	1.5	0.3	1.0	0.9	1.5	1.2	2.0	1.0	0.3	0.8	23.4
Aug.	1.8	2.4	3.0	2.7	2.0	2.7	1.4	1.0	1.8	0.7	0.3	0.5	0.3	0.2	...	0.2	0.4	...	1.7	0.6	0.4	0.3	0.1	0.3	24.8
Sept.	2.4	2.7	2.3	1.9	2.1	1.3	0.8	0.8	0.4	0.1	0.3	0.3	0.3	0.4	0.1	...	...	0.2	0.2	...	0.6	2.3	2.8	3.2	25.5
Oct.	2.7	1.8	1.5	0.9	1.3	2.4	3.2	2.7	1.7	1.8	2.0	...	0.1	0.4	...	0.4	1.1	1.5	1.2	2.8	4.1	3.6	5.7	2.2	45.1
Nov.	2.8	2.5	2.5	0.6	1.4	1.9	2.3	3.7	4.9	0.9	0.8	0.2	0.9	0.9	1.3	1.7	1.6	2.3	2.2	1.7	1.6	1.9	1.7	2.1	44.4
Dec.	1.0	1.0	1.8	1.5	2.0	2.9	2.8	2.5	1.6	0.3	0.9	0.4	0.4	0.4	0.6	1.3	1.6	1.3	0.1	...	0.6	0.1	0.1	0.1	25.3
Annual	20.8	20.0	23.2	20.9	23.9	23.8	23.0	20.7	18.6	9.7	11.8	9.2	9.5	10.6	11.3	11.1	13.5	17.1	14.2	13.0	15.8	15.9	16.8	16.0	390.4

NOTES ON RAINFALL

1943

172 KEW OBSERVATORY

Dry Periods

The following definitions are adopted by the British Rainfall Organization

- An "absolute drought" is a period of at least 15 consecutive days to none of which is credited 0.2 mm. of rain or more
- A "partial drought" is a period of at least 29 consecutive days, the mean daily rainfall of which does not exceed 0.2 mm.
- A "dry spell" is a period of at least 15 consecutive days to none of which is credited 1.0 mm. of rain or more
- "Absolute drought": February 26-March 23: April 3-18: June 19-July 5
- "Partial drought": February 11-March 24
- "Dry spell": February 26-March 24: April 3-18: June 19-July 5: December 3-17

Wet Periods

The following definitions are adopted by the British Rainfall Organization

- A "rain spell" is a period of at least 15 consecutive days to each of which is credited 0.2 mm. of rain or more
- A "wet spell" is a period of at least 15 consecutive days to each of which is credited 1.0 mm. of rain or more
- "Rain spell": No occasions
- "Wet spell": No occasions

Rainfall Duration

Hours	0.1-1.0	1.1-2.0	2.1-6.0	6.1-12.0	>12.0
Number of days	62	32	42	15	2

Continuous or Heavy Falls

The fall of the longest duration occurred on December 19 when 17 mm. fell in 8 hr.2 min. On May 10 the duration was 7 hr. 32 min. (6 mm.) and on August 26 a duration of 6 hr. 22 min. (11 mm.) occurred.

Heavy Falls in short periods

On September 12, 5 mm. fell in 2½ min., 10 mm. in 7 min., 15 mm. in 12 min. and 16 mm. in 15 min. The latter measurement comes within the category of "Noteworthy Falls" as now defined. (See British Rainfall, 1935, p.274).

Rate of Rainfall (Jardi recorder)

The highest instantaneous rate of rainfall recorded by this instrument was 148 mm./hr. at 19h. 50m. on October 19. The maximum rate exceeded 50 mm./hr. on January 1 and 30, April 25, May 8 and 10, June 2, July 6 and 31, August 23 and 26, September 10 and 12, October 19 and December 2.

DURATION OF BRIGHT SUNSHINE AND TOTAL SOLAR RADIATION FOR EACH DAY
Solar radiation received on a surface perpendicular to the solar beam

173 KEW OBSERVATORY: h_s (height of recorder above ground) = 13.3 m.

1943

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation
	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²
1	...	...	...	2.0	22	310	6.5	60	710	...	...	...	4.2	29	670	4.3	27	610
2	1.5	19	190	4.6	50	540	...	...	...	1.2	9	110	0.1	1	50	2.6	16	410
3	4.2	53	530	7.0	76	960	...	...	...	6.2	48	770	10.0	67	1190	2.3	14	260
4	0.4	5	90	1.5	16	140	2.8	25	280	5.9	45	930	13.7	92	2700	2.5	15	600
5	...	...	...	...	...	...	4.8	43	520	10.5	80	2100	...	...	30	2.7	17	460
6	...	...	...	1.2	13	150	1.7	15	180	6.6	50	1170	0.2	1	70	5.2	32	1020
7	...	...	...	3.3	35	380	5.3	47	510	2.1	16	440	7.8	52	1590	7.0	43	1390
8	2.4	30	250	0.2	2	10	4.3	38	570	6.9	52	1060	0.5	3	140	...	...	...
9	0.6	7	90	...	...	...	7.9	70	950	...	...	...	6.0	40	1340	4.0	24	830
10	...	...	...	0.5	5	80	4.4	39	710	...	...	...	...	...	...	2.3	14	300
11	1.8	22	160	0.7	7	100	...	...	10	1.2	9	230	4.3	28	840	7.6	46	1060
12	...	...	...	0.3	3	50	7.5	65	620	...	...	...	0.5	3	100	11.2	68	2640
13	4.0	49	600	7.5	77	1160	3.1	27	420	11.7	86	2340	12.6	82	2750	5.7	35	1130
14	3.2	39	260	1.0	10	70	8.0	69	900	1.7	12	370	12.1	78	2720	7.5	45	1850
15	2.8	34	400	5.3	54	690	5.0	43	550	8.3	60	1740	10.9	70	2600	6.4	39	1120
16	...	...	...	7.0	70	910	7.9	67	1050	10.2	74	1550	14.2	91	2820	3.5	21	800
17	0.1	1	20	1.8	18	230	2.7	23	240	10.8	78	1740	12.7	81	1750	13.0	79	2160
18	...	...	10	5.2	52	730	8.3	70	950	12.3	88	2720	14.1	90	2970	0.1	1	70
19	0.4	5	40	6.2	61	870	0.2	2	20	3.4	24	500	13.6	87	3060	6.0	36	1510
20	0.1	1	10	...	...	...	0.1	1	...	11.9	85	2450	10.4	66	1510	9.4	57	1870
21	4.7	55	590	...	...	...	1.2	10	110	4.6	33	600	8.8	56	1070	9.0	54	1880
22	0.8	9	90	...	...	...	5.9	48	330	0.1	1	10	4.7	30	750	7.6	46	1740
23	2.7	31	360	...	...	...	5.9	48	450	1.2	8	100	8.0	50	1500	6.2	37	1130
24	1.2	14	170	5.9	57	790	0.7	6	40	8.7	61	1760	0.1	1	30	13.7	83	2780
25	0.1	1	...	2.0	19	210	0.6	5	110	8.8	61	1580	9.1	57	1870	5.0	30	910
26	3.3	38	420	7.6	72	740	1.7	14	250	6.0	42	930	6.2	39	1360	8.4	51	1280
27	0.2	2	...	5.0	47	450	1.0	8	110	3.0	21	440	8.7	54	1920	4.8	29	550
28	...	...	...	0.3	3	20	6.5	52	1040	3.7	25	490	10.2	63	1740	9.6	58	2010
29	5.6	63	590	...	...	...	2.6	21	490	5.6	38	920	12.2	76	1820	5.6	34	1160
30	1.8	20	170	...	...	...	1.3	10	240	...	...	...	5.7	35	1130	3.2	19	590
31	...	...	...	...	...	...	1.4	11	230	...	...	...	4.8	30	770	...	...	...
Mean	1.35		160	2.72		340	3.53		410	5.09		900	7.30		1380	5.88		1140

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation
	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²
1	13.1	79	2720	9.1	59	1640	...	...	10	0.4	3	960	...	...	...	...	...	10
2	10.8	65	2150	5.2	34	1000	3.8	28	670	8.7	75	1750	0.4	4	50	3.7	45	460
3	9.8	59	1820	6.3	41	1210	2.8	21	440	8.2	71	1470	0.6	6	130	0.5	6	80
4	7.2	44	1090	5.6	37	1040	10.0	75	2140	0.2	2	50	0.2	2	20	4.8	60	440
5	1.3	8	140	4.4	29	900	3.1	23	450	...	...	...	...	...	...	2.6	32	260
6	5.8	35	1040	3.4	22	280	7.7	58	1790	0.2	2	40	0.4	4	60	...	...	10
7	9.5	58	1080	0.1	1	50	2.1	16	260	0.7	6	180	6.6	71	970	...	...	...
8	3.7	23	540	1.1	7	220	5.9	45	1110	4.8	43	620	0.2	2	40	...	...	...
9	1.3	8	130	9.4	63	1860	6.8	52	1060	5.1	46	590	3.5	38	470	...	...	10
10	0.4	2	50	3.1	21	570	0.5	4	180	...	...	80	3.4	37	500	0.1	1	60
11	0.1	1	30	1.2	8	160	7.4	57	1410	2.9	26	230	3.1	34	410	0.1	1	60
12	4.5	28	870	8.7	59	1560	1.0	8	120	...	...	10	0.3	3	10	...	...	...
13	7.4	46	1120	1.3	9	360	1.8	14	170	0.1	1	40	1.7	19	170	1.1	14	180
14	1.8	11	300	8.2	56	1540	5.8	46	1130	0.6	6	40	0.2	2	30	...	...	...
15	0.6	4	130	11.9	81	2000	7.1	56	1150	4.1	38	520	3.7	42	420	...	...	...
16	7.2	45	800	12.6	86	2950	0.3	2	100	3.6	34	540	...	...	40	...	...	...
17	14.6	91	3150	6.3	43	1260	1.2	10	310	3.3	31	650	1.6	18	190	...	...	...
18	1.0	6	190	7.3	51	1340	8.1	65	1070	4.2	40	720	6.4	74	710	...	...	...
19	0.8	5	110	9.1	63	2060	5.0	40	770	2.1	20	800	3.4	39	380	0.2	2	20
20	1.3	8	240	3.9	27	590	4.2	34	440	4.1	39	840	...	...	...	5.7	74	680
21	...	...	...	0.7	5	30	...	...	20	1.2	12	240	...	...	...	...	...	...
22	3.8	24	530	10.0	70	1900	10.3	84	1900	1.9	19	340	...	...	...	5.0	65	520
23	...	...	...	8.8	63	1720	8.3	68	1520	1.9	19	420	...	...	50	...	...	60
24	2.1	13	150	10.7	76	1930	10.3	85	1880	4.0	39	800	1.7	20	260	4.0	52	370
25	12.1	77	1400	7.8	56	1530	6.2	51	1100	3.6	35	410	6.1	73	840	...	...	...
26	7.5	48	1130	4.0	29	890	3.1	26	410	...	...	50	...	...	110	...	...	20
27	7.5	48	1400	7.5	54	1610	6.6	56	1090	3.9	39	390	...	...	...	...	...	...
28	9.2	59	2040	0.1	1	10	0.4	3	60	...	...	10	...	...	...	...	...	...
29	10.4	67	1810	1.7	12	280	...	...	10	...	...	...	4.2	51	630	...	...	...
30	12.3	79	2170	2.7	20	550	...	...	...	...	...	50	0.3	4	50	4.0	51	430
31	11.6	75	2110	1.9	14	290	...	...	...	...	...	...	...	...	...	0.7	9	160
Mean	5.76		1000	5.62		1070	4.33		760	2.25		380	1.60		220	1.05		120
Annual Mean										3.88		660						

See Introduction for corrections to tabulated values of radiation.

DURATION OF BRIGHT SUNSHINE

127

Monthly and annual totals between exact hours, local apparent time

174 KEW OBSERVATORY: h_s (height of recorder above ground) = 13.3 m.

1943

	Hour L. A. T.																				Total	Per cent. of possible
	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21				
	<i>hours</i>																					%
Jan.	-	-	-	-	... 2.2	5.3	6.2	8.7	9.9	5.7	3.3	0.6	...	-	-	-	-	-	41.9	16		
Feb.	-	-	-	... 0.1	5.8	10.9	12.7	11.7	11.1	9.4	8.3	5.8	0.3	...	-	-	-	-	76.1	28		
Mar.	-	-	... 0.6	4.1	7.5	9.4	9.8	13.5	15.3	15.7	14.7	13.0	5.3	0.4	...	-	-	-	109.3	30		
Apr.	-	... 0.5	8.4	14.8	15.0	16.3	16.4	13.8	13.2	12.1	12.3	10.9	11.6	6.0	1.3	...	-	-	152.6	37		
May	... 0.5	10.0	17.2	18.5	20.4	19.4	18.7	17.8	18.5	15.7	15.9	16.0	15.9	13.1	8.0	0.8	...	-	226.4	47		
June	... 2.3	9.4	11.2	13.6	13.0	13.9	13.3	13.4	13.2	12.1	9.9	10.7	11.2	11.7	11.7	5.8	...	-	176.4	36		
July	... 1.7	6.8	9.8	11.2	12.3	13.9	14.5	13.9	13.5	12.9	11.9	11.5	13.6	14.6	13.5	3.1	...	-	178.7	36		
Aug.	-	... 4.2	10.3	14.0	15.9	14.6	14.4	14.7	12.4	13.7	15.6	12.4	12.8	11.0	7.5	0.6	-	-	174.1	39		
Sept.	-	-	... 2.2	10.8	14.2	13.0	10.8	12.4	14.0	12.9	12.3	11.9	11.5	3.8	...	-	-	-	129.8	34		
Oct.	-	-	-	0.1	1.6	5.4	6.1	7.2	8.7	11.2	11.2	10.4	5.5	2.1	0.3	-	-	-	69.8	21		
Nov.	-	-	-	-	... 2.3	5.7	8.2	8.3	8.9	7.9	5.8	0.9	...	-	-	-	-	-	48.0	18		
Dec.	-	-	-	-	... 1.9	6.5	7.2	6.9	7.2	7.2	2.8	...	...	-	-	-	-	-	32.5	13		
Annual	... 4.5	30.9	59.8	88.7	114.0	130.4	138.7	144.1	148.1	136.5	123.2	99.2	84.3	60.9	42.0	10.3	...	-	1415.6	32		

SOLAR RADIATION RECEIVED ON A SURFACE PERPENDICULAR TO THE SOLAR BEAM

Monthly and annual totals between exact hours, local apparent time

175 KEW OBSERVATORY: h_s = 13.3 m.

1943

	Hour L. A. T.																				Total
	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21			
	joules per square centimetre																				
Jan.	-	-	-	-	...	170	620	780	960	1210	720	460	120	...	-	-	-	-	5040		
Feb.	-	-	-	-	...	60	470	1280	1730	1670	1400	1230	1000	620	130	...	-	-	9590		
Mar.	-	-	...	120	620	930	1100	1310	1670	1650	1690	1470	1220	650	160	...	-	-	12590		
Apr.	-	...	170	1040	2010	2440	2670	3140	2810	3030	2940	2310	1840	1620	820	240	...	-	27080		
May	...	160	1090	2090	3020	3600	3840	4010	4080	4180	3780	3600	3480	2970	1880	920	170	...	42870		
June	...	390	1190	1750	2320	2550	3160	3130	3230	2940	2680	2400	2400	2200	1830	1360	590	...	34120		
July	...	240	890	1360	1880	2140	2580	2780	2910	2660	2730	2410	2300	2350	2070	1270	270	...	30840		
Aug.	-	10	560	1690	2690	3050	3030	3020	3030	2600	2920	3150	2450	2450	1780	690	30	-	33150		
Sept.	-	-	30	540	1460	2020	2250	2180	2500	2840	2520	2320	1890	1490	700	50	-	-	22790		
Oct.	-	-	-	40	310	860	1130	1390	1470	2050	1760	1400	800	430	40	-	-	-	11680		
Nov.	-	-	-	-	10	230	770	1110	1320	1180	940	670	290	10	-	-	-	-	6530		
Dec.	-	-	-	-	...	30	290	580	860	780	750	440	80	...	-	-	-	-	3810		
Annual	...	800	3930	8630	14380	18490	22720	25160	26510	26520	24660	21630	17490	14300	9280	4530	1060	...	240090		

See Introduction for corrections to tabulated values.

WIND

Mean speed and highest instantaneous speed recorded each day (0h. to 24h., G.M.T.) by the pressure-tube anemograph

176 KEW OBSERVATORY: h_a (height of anemograph above M.S.L.) = height of ground above M.S.L. + height of anemograph above ground
= 5 m. + 23 m.

1943

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust
	<i>metres per second</i>																							
1	6.5	25	8.3	27	2.0	9	6.6	19	4.6	14	7.0	22	5.2	13	6.7	19	3.2	10	4.3	15	2.3	7	2.1	7
2	6.4	21	5.3	16	2.1	8	2.6	13	6.3	16	5.8	21	3.7	11	6.1	15	2.3	10	3.2	13	3.3	11	3.0	14
3	3.8	14	4.0	14	7.6	20	2.6	11	8.7	21	4.6	16	2.2	10	2.1	8	1.5	7	2.8	12	3.3	12	3.5	15
4	1.2	6	2.7	11	4.8	16	2.1	9	7.5	20	3.8	13	3.0	11	3.0	11	3.5	12	6.0	15	3.1	12	6.5	16
5	2.4	7	6.3	18	1.7	9	5.3	19	2.1	8	4.3	13	2.1	9	5.5	18	5.0	15	5.8	17	1.7	6	4.7	13
6	3.6	11	6.3	21	3.5	13	7.1	18	3.5	12	2.7	12	4.0	15	3.7	15	4.4	15	5.5	16	5.1	17	4.4	12
7	3.7	11	3.1	16	3.3	12	7.9	28	4.8	20	2.0	12	3.5	12	3.2	13	2.8	14	2.6	10	4.6	15	1.9	10
8	1.8	10	4.7	23	2.7	11	4.7	14	9.6	23	2.3	10	2.4	12	6.8	18	1.2	7	1.5	7	2.1	11	1.3	6
9	4.7	13	6.6	23	1.8	8	3.0	13	8.0	22	1.3	6	3.7	13	4.2	15	5.1	16	1.2	5	1.2	4	4.2	9
10	2.5	12	4.0	12	2.9	10	2.0	8	9.1	24	2.0	9	3.9	15	3.7	12	2.6	12	1.4	5	3.4	12	3.8	15
11	5.4	17	3.8	12	3.0	10	4.2	14	3.6	13	2.9	11	6.4	17	3.8	15	2.1	9	1.1	6	3.3	13	5.1	14
12	5.9	18	7.2	22	2.7	8	3.8	12	4.3	18	4.1	14	6.7	17	3.1	12	4.6	13	1.1	5	4.9	17	6.3	14
13	3.7	14	5.4	17	5.0	14	2.5	11	3.8	18	3.9	16	5.6	17	5.6	17	2.5	10	1.7	7	5.1	19	4.7	14
14	7.0	20	6.1	17	3.1	10	2.7	9	2.1	13	3.7	16	4.8	15	3.9	14	3.5	15	1.3	7	6.0	20	1.8	6
15	3.7	11	7.0	22	1.2	5	2.5	10	4.6	13	3.8	20	5.4	16	2.8	11	5.1	15	1.2	5	6.1	17	5.3	15
16	3.3	12	6.2	22	1.1	5	0.7	5	2.5	9	2.9	15	1.3	7	2.7	12	5.0	13	3.0	12	3.0	10	2.7	9
17	3.5	12	1.8	7	1.0	4	2.2	13	2.1	9	2.0	9	5.3	14	4.0	11	2.3	10	3.6	13	3.3	12	2.2	11
18	1.7	5	2.0	9	3.9	15	3.8	14	6.2	14	5.2	16	7.0	15	3.0	12	1.2	6	4.0	12	5.0	13	5.1	20
19	2.2	9	1.6	10	2.4	7	2.6	10	5.5	13	6.5	16	5.8	15	2.3	11	1.5	8	5.7	21	2.8	10	4.2	15
20	4.4	12	0.4	2	1.4	6	1.7	11	1.8	10	5.1	18	6.1	14	2.8	12	3.5	12	5.3	18	0.7	3	5.0	15
21	4.0	18	0.8	5	1.8	8	5.1	15	1.4	9	3.1	9	4.6	13	2.5	14	2.1	7	4.8	16	0.9	4	6.3	20
22	2.9	12	1.4	5	3.2	9	4.6	16	3.3	13	3.9	13	4.6	12	5.1	16	2.7	13	3.7	14	2.2	7	5.7	15
23	2.8	14	1.3	7	4.4	11	3.7	13	4.1	13	4.3	13	2.1	7	3.4	13	2.0	9	2.6	14	4.5	17	1.3	7
24	1.9	11	1.5	6	5.4	11	6.7	19	3.6	14	2.0	10	1.0	5	1.5	8	2.5	12	1.2	8	6.2	18	1.7	8
25	5.7	18	2.5	12	3.1	14	9.2	21	3.5	16	3.2	13	1.2	9	4.4	15	2.8	12	1.2	6	4.9	15	1.9	9
26	3.8	12	2.4	10	3.0	12	7.9	23	2.9	11	2.8	10	2.0	9	3.0	12	2.0	9	0.6	3	1.0	4	1.9	7
27	4.4	16	1.3	7	2.8	10	4.8	16	2.7	10	3.2	10	2.6	10	4.5	15	2.0	12	0.6	3	1.8	10	1.4	6
28	7.1	18	1.8	9	3.0	13	3.1	12	1.5	7	3.5	11	3.0	10	5.2	18	5.7	19	1.5	6	5.6	19	1.3	5
29	6.5	18			6.2	18	2.3	12	2.3	12	5.0	14	1.2	7	5.8	16	2.4	11	1.9	6	6.5	21	2.7	7
30	7.5	26			7.8	24	3.1	13	3.6	11	4.7	13	2.0	9	5.5	16	2.7	10	3.0	8	5.8	20	3.5	14
31	9.2	31			7.1	22			3.1	13			3.3	28	1.4	6			1.7	7			2.9	8

WIND

Monthly and annual means of mean wind speed between exact hours, G.M.T.

177 KEW OBSERVATORY: h_a = 5 m. + 23 m.

1943

	Hour G.M.T.																								Mean	
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean	
	<i>metres per second</i>																									
Jan.	4.2	4.5	4.1	4.4	4.4	4.2	4.1	4.1	4.4	4.4	4.8	5.0	5.1	5.1	4.8	4.6	4.1	3.8	3.7	3.9	3.7	3.9	4.0	4.2	4.3	
Feb.	3.7	3.8	3.7	3.7	3.6	3.5	3.3	3.3	3.3	3.5	4.3	4.8	4.9	4.9	4.5	4.5	4.1	3.5	3.3	3.1	3.3	3.3	3.3	3.3	3.8	
Mar.	2.6	2.6	2.6	2.5	2.4	2.4	2.3	2.4	2.7	3.3	4.0	4.4	4.4	4.6	4.7	4.6	4.5	4.1	3.8	3.4	3.4	3.3	3.2	3.1	3.4	
Apr.	3.1	3.0	3.0	3.1	3.1	3.0	3.1	3.5	4.1	4.3	4.6	5.1	5.2	5.6	5.7	5.5	5.3	5.0	4.5	3.8	3.5	3.3	3.2	3.2	4.0	
May	3.3	3.2	3.1	3.0	3.0	3.2	3.5	4.2	4.5	5.0	5.5	5.4	5.5	5.6	5.7	5.6	5.3	5.2	4.6	4.2	4.2	4.1	4.0	3.5	4.3	
June	2.7	2.7	2.6	2.4	2.2	2.5	3.2	3.5	3.7	4.2	4.4	4.6	5.0	5.2	5.0	5.1	4.9	4.7	4.4	4.0	3.4	3.0	2.7	2.8	3.7	
July	3.0	2.9	2.6	2.9	2.9	3.0	3.2	3.5	3.6	4.0	4.3	4.4	4.5	4.5	4.4	4.8	4.8	4.6	4.6	4.1	3.6	3.4	3.1	3.0	3.7	
Aug.	2.6	2.5	2.4	2.3	2.3	2.3	2.6	3.5	4.1	4.7	4.9	5.2	5.5	5.5	5.6	5.6	5.4	5.2	4.8	3.9	3.5	3.3	3.1	2.8	3.9	
Sept.	2.5	2.1	2.0	2.2	2.2	2.1	2.2	2.3	2.9	3.3	3.9	4.2	4.1	4.2	4.2	4.1	3.9	3.5	2.9	2.7	2.8	2.7	2.5	2.5	3.0	
Oct.	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.2	2.3	2.7	3.3	4.0	3.6	3.9	3.8	3.7	3.3	3.1	3.1	2.8	2.6	2.5	2.4	2.3	2.7	
Nov.	3.2	3.1	3.0	3.2	3.0	2.9	3.1	3.2	3.3	3.5	4.1	4.7	5.0	5.0	4.6	4.3	3.8	3.7	3.5	3.5	3.6	3.6	3.4	3.2	3.7	
Dec.	3.3	3.2	3.3	3.4	3.2	3.1	2.9	2.8	3.0	3.2	3.5	3.8	4.0	4.1	4.2	4.1	3.8	3.9	3.7	3.7	3.6	3.5	3.2	3.2	3.5	
Annual	3.0	2.9	2.9	2.9	2.9	2.9	3.0	3.2	3.5	3.8	4.3	4.6	4.7	4.8	4.8	4.7	4.4	4.2	3.9	3.6	3.4	3.3	3.2	3.1	3.7	

DISTRIBUTION OF WIND SPEED, EXTREME VELOCITIES AS RECORDED BY PRESSURE-TUBE ANEMOGRAPH

178 KEW OBSERVATORY: h_a = 5 m. + 23 m.

1943

	DISTRIBUTION OF WIND SPEED								EXTREME VELOCITIES				
	More than 17·1 m./sec.		10·8 to 17·1 m./sec.		5·5 to 10·7 m./sec.	1·6 to 5·4 m./sec.	Less than 1·6 m./sec.	No record	Highest hourly wind			Highest gust	
	Dates of occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration	Veer from N.	Speed	Hour ended	Speed	Date
		hr.		hr.	hr.	hr.	hr.	nr.	°	m./sec.	day h.	m./sec.	day h. m.
Jan.	-	0	3	12	202	423	107	0	210	15	31 15	32	31 14 0
Feb.	-	0	4	11	177	299	185	0	225	13	1 4	27	1 4 0
Mar.	-	0	2	4	144	390	206	0	80	11	3 23	24	30 18 45
Apr.	-	0	1	4	187	399	130	0	320	15	7 14	28	7 13 10
May	-	0	4	16	220	367	141	0	210	13	10 14	24	10 11 20
June	-	0	1	1	138	453	128	0	225	11	1 17	22	1 16 50
July	-	0	0	0	177	428	139	0	85	9	17 19	28	31 17 55
Aug.	-	0	0	0	189	421	134	0	225	10	1 18	19	1 17 20
Sept.	-	0	0	0	98	418	204	0	70	9	9 18	19	28 12 15
Oct.	-	0	0	0	98	367	279	0	190	11	19 20	21	19 18 25
Nov.	-	0	0	0	181	367	163	0	290	10	29 14	21	29 12 55
Dec.	-	0	1	1	141	446	156	0	200	11	18 18	20	18 18 20
Year	-	0	16	49	1952	4787	1972	0	210	15	Jan. 31 15	32	Jan. 31 14 0

179 KEW OBSERVATORY

1943

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.
	<i>degrees Absolute</i>																							
1	77.7	81.2	80.0	80.4	78.2	79.9	81.9	80.3	84.0	83.1	89.0	85.9	91.1	87.3	93.7	88.6	89.6	88.8	86.6	87.0	84.3	85.3	78.2	82.1
2	78.1	81.1	80.0	80.5	78.9	79.9	82.0	80.5	83.5	83.1	88.2	86.1	91.4	87.4	92.5	88.9	89.4	88.8	87.0	87.0	85.0	85.2	79.0	82.1
3	77.5	81.1	79.2	80.6	79.0	79.9	82.0	80.9	83.5	83.2	87.6	86.0	91.9	87.6	91.9	89.0	89.0	88.6	85.7	86.9	84.6	85.2	78.1	82.1
4	76.7	81.0	78.4	80.6	78.8	80.0	82.0	80.9	83.7	83.2	87.3	86.1	92.6	87.7	92.0	89.0	88.6	88.7	85.6	86.9	84.0	85.2	78.5	82.0
5	76.2	80.8	78.0	80.4	77.9	80.0	82.0	81.1	83.7	83.2	87.9	86.1	92.6	87.9	91.9	89.1	89.2	88.5	86.1	86.8	83.9	85.1	77.4	81.9
6	76.5	80.7	79.0	80.4	77.8	79.9	82.2	81.1	84.1	83.2	88.2	86.0	91.6	88.0	91.4	89.1	88.9	88.6	86.4	86.8	83.5	85.1	77.3	81.8
7	77.1	80.4	78.8	80.6	78.3	79.9	81.9	81.2	83.8	83.3	88.5	86.1	90.4	88.1	91.0	89.1	88.5	88.3	86.2	86.8	82.3	85.2	77.8	81.7
8	77.0	80.2	77.0	80.3	77.8	80.0	81.2	81.2	83.9	83.2	88.6	86.0	90.2	88.1	90.6	89.1	88.0	88.3	85.2	86.8	81.0	85.1	77.9	81.4
9	76.0	80.1	77.3	80.1	78.1	80.0	81.8	81.3	83.0	83.1	88.9	86.1	89.6	88.1	91.1	89.0	88.0	88.2	84.8	86.8	82.0	85.0	78.1	81.4
10	75.7	80.0	77.7	79.9	77.5	80.0	81.9	81.3	83.1	83.2	90.1	86.2	89.1	88.1	90.8	89.1	89.0	88.2	85.3	86.5	81.5	84.9	78.1	81.3
11	76.7	80.0	78.0	79.8	78.8	79.9	82.0	81.4	83.1	83.3	90.5	86.2	89.3	87.9	91.2	89.0	89.8	88.2	85.8	86.4	82.0	84.7	77.2	81.3
12	77.7	79.9	79.1	79.6	78.6	80.0	82.6	81.5	84.1	83.2	91.1	86.5	89.9	88.0	90.0	88.9	90.3	88.2	85.6	86.3	81.6	84.4	77.2	81.2
13	78.0	79.9	79.1	79.7	78.2	80.0	82.8	81.7	85.0	83.3	90.2	86.4	89.9	88.1	90.3	88.9	90.6	88.2	86.0	86.3	81.9	84.4	77.1	81.2
14	78.0	79.8	79.0	79.8	78.2	79.9	83.0	81.9	86.3	83.3	89.9	86.7	89.3	88.1	90.9	88.9	90.0	88.2	86.5	86.3	81.0	84.2	76.4	81.1
15	77.6	79.9	79.9	79.9	77.8	80.0	83.6	81.9	87.6	83.3	89.2	86.8	89.5	88.0	90.7	88.8	90.1	88.3	85.8	86.3	80.3	84.2	76.1	81.0
16	77.1	79.9	79.0	79.9	77.2	79.9	84.0	82.0	86.9	83.7	88.5	87.0	90.1	88.0	90.4	88.8	89.9	88.3	84.9	86.3	79.8	84.1	76.8	81.0
17	77.7	79.8	78.0	80.0	77.8	79.9	84.7	82.1	86.7	83.9	88.6	87.2	90.8	88.0	91.0	88.9	89.5	88.3	85.0	86.2	79.0	84.0	76.5	80.9
18	77.7	79.8	78.3	79.9	77.7	80.0	85.0	82.3	87.0	84.1	89.0	86.8	90.8	88.0	92.0	88.9	88.8	88.3	84.6	86.2	78.8	83.9	77.2	80.7
19	78.0	79.8	78.5	80.2	78.2	80.1	85.1	82.3	87.4	84.2	88.8	86.9	90.4	88.0	91.5	89.0	88.0	88.3	84.9	86.1	78.5	83.6	78.3	80.6
20	78.7	79.9	78.0	80.0	78.6	79.9	83.8	82.7	87.8	84.3	90.0	86.8	90.6	88.1	91.7	89.0	88.1	88.2	85.0	86.1	78.1	83.3	77.8	80.6
21	79.7	80.0	78.0	80.0	78.1	79.9	83.8	82.7	88.1	84.4	89.5	87.0	90.4	88.0	92.0	89.0	87.4	88.2	85.2	86.1	78.1	83.1	78.0	80.5
22	79.8	80.0	78.2	80.0	78.6	79.9	84.6	82.8	88.6	84.6	89.7	87.1	90.0	88.0	91.0	89.1	86.4	88.2	85.2	86.1	79.0	83.0	78.0	80.5
23	80.2	80.1	78.1	80.0	78.8	79.9	83.7	82.9	88.1	84.9	90.6	87.1	89.9	88.0	90.8	89.0	85.6	88.1	85.2	86.0	78.8	83.0	77.0	80.5
24	78.9	80.1	77.9	80.0	79.6	80.0	84.1	82.9	87.5	85.0	90.5	87.1	89.6	88.0	89.0	89.0	86.0	87.9	84.4	86.0	79.3	82.9	76.7	80.4
25	78.8	80.3	77.8	80.0	80.1	80.0	84.4	83.0	87.0	85.0	90.9	87.1	89.7	88.1	90.2	89.0	86.5	87.8	84.1	85.9	79.0	82.8	76.4	80.3
26	78.5	80.2	78.0	80.0	81.0	80.1	84.2	83.1	87.6	85.1	90.9	87.2	91.0	88.1	89.9	89.0	85.7	87.7	83.8	85.9	78.1	82.7	77.4	80.3
27	78.8	80.3	77.6	79.9	80.4	80.1	84.1	83.1	88.6	85.2	90.6	87.1	91.5	88.1	90.6	89.0	84.6	87.4	83.6	85.9	77.3	82.5	78.6	80.2
28	79.6	80.2	77.7	79.9	80.2	80.2	84.1	83.1	88.8	85.2	90.0	87.1	92.0	88.1	89.0	88.9	85.0	87.2	83.8	85.6	79.0	82.2	77.9	80.1
29	80.4	80.3	79.9	80.2	79.9	80.2	83.8	83.2	89.1	85.4	90.8	87.2	92.8	88.2	89.5	89.0	85.2	87.2	84.0	85.4	79.3	82.2	77.9	80.1
30	80.4	80.2	80.5	80.3	80.5	80.3	84.5	83.1	89.5	85.4	90.6	87.3	92.9	88.3	90.2	88.9	86.1	87.1	84.1	85.3	78.8	82.2	77.7	80.2
31	79.8	80.3			81.2	80.3			89.5	85.7			93.7	88.5	89.2	88.9			83.9	85.3			76.8	80.1
Mean	78.1	80.2	78.4	80.1	78.8	80.0	83.2	82.0	86.1	84.0	89.5	86.6	90.8	88.0	90.9	89.0	88.1	88.1	85.2	86.3	80.7	84.0	77.5	81.0
												Year	84.0 84.1											

MINIMUM TEMPERATURE "ON THE GRASS" DURING THE INTERVAL 18h. TO 7h., G.M.T.

180 KEW OBSERVATORY

1943

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
	degrees Absolute												
1	75.9	76.8	70.3	84.1	75.3	80.7	84.9	87.9	81.1	80.8	82.2	69.8	
2	71.0	75.8	70.9	81.0	79.6	82.1	82.8	86.7	81.3	84.1	83.6	74.1	
3	69.6	72.2	71.4	73.0	77.5	82.2	83.2	83.4	73.8	68.1	74.5	68.0	
4	65.3	66.2	74.6	70.7	76.4	73.9	80.8	78.6	75.5	76.4	73.6	75.6	
5	69.2	69.4	65.3	69.2	72.1	84.1	82.5	86.8	85.3	84.7	76.7	68.9	
6	73.0	80.4	68.1	73.5	75.9	81.1	80.3	85.1	74.9	84.8	72.4	72.9	
7	76.3	65.9	65.7	74.2	69.7	74.7	80.2	81.3	74.1	81.3	72.0	75.2	
8	64.9	65.3	63.1	71.4	79.2	83.2	77.8	83.6	75.9	70.7	64.5	71.2	
9	63.1	75.9	66.2	79.1	75.3	82.5	75.3	88.0	73.9	72.2	75.2	75.4	
10	70.7	73.4	64.1	80.1	78.7	81.8	79.2	77.7	86.9	75.2	69.7	74.6	
11	76.4	76.9	78.9	76.3	69.6	79.4	86.4	86.3	85.8	77.4	75.4	65.8	
12	77.2	79.8	63.5	80.8	83.5	85.2	88.1	73.9	81.6	76.3	72.4	74.2	
13	74.8	74.3	70.1	71.8	80.2	77.4	81.4	85.3	84.6	83.3	77.7	71.8	
14	76.1	77.1	71.1	70.4	77.4	78.6	80.2	86.4	80.4	84.8	70.7	63.6	
15	69.8	79.8	63.1	74.6	81.8	77.4	83.4	85.9	84.7	71.1	74.0	67.4	
16	66.6	72.4	63.6	71.9	70.8	74.1	86.3	75.8	84.7	71.3	68.4	73.5	
17	76.4	65.7	66.2	72.5	71.8	75.3	79.2	80.1	78.4	81.3	68.1	70.2	
18	70.3	78.3	64.7	75.7	75.1	79.6	84.4	85.8	74.1	71.4	71.6	75.9	
19	75.2	67.1	69.5	75.4	81.8	86.6	85.3	76.4	74.1	81.1	71.4	78.7	
20	78.3	66.7	76.3	66.9	75.3	83.7	85.7	80.2	77.7	73.0	66.1	71.5	
21	78.5	68.1	64.7	69.1	80.1	80.8	86.4	88.8	71.3	82.0	71.9	76.4	
22	78.0	74.7	75.2	84.1	76.8	74.3	85.8	81.7	68.4	78.5	77.4	74.8	
23	77.6	75.0	70.7	71.4	79.6	85.1	84.8	81.8	69.2	79.1	67.5	67.1	
24	66.7	65.3	77.7	78.1	75.2	75.3	85.6	74.7	73.7	71.5	77.5	67.3	
25	75.6	66.4	80.2	81.0	78.6	81.6	77.9	78.7	76.9	72.2	72.6	68.7	
26	71.0	68.4	79.2	78.6	73.5	75.7	79.7	82.1	70.5	71.9	66.4	75.7	
27	72.3	65.3	70.3	76.3	87.0	78.0	80.8	80.6	66.7	74.8	66.4	80.0	
28	79.7	65.3	68.1	77.3	78.4	75.3	86.4	79.6	74.7	73.6	80.1	67.1	
29	79.2		67.0	66.4	77.3	83.6	82.0	87.6	82.5	77.4	74.4	75.0	
30	78.2		80.2	82.6	84.6	84.9	81.1	86.3	84.3	79.7	74.7	71.9	
31	74.1		78.6		76.9		84.3	75.8		76.1		66.4	
Mean	73.3	71.7	70.3	75.3	77.3	79.9	82.7	82.4	77.6	77.0	73.0	71.9	
						Year	76.0						

ELECTRICAL OBSERVATIONS, UNDERGROUND LABORATORY, WILSON METHOD

Mean value for periods of twenty minutes about 14h. 30m.

F = Potential gradient, unit 1 v./cm. $\lambda+$ = Conductivity due to positive ions, unit 10^{-18} ohm. $^{-1}$ cm. $^{-1}$
 i = Air-earth current, unit 10^{-18} amp. cm. $^{-2}$

181 KEW OBSERVATORY

1943

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i
1	...	...	...	...	...	...	2.98	9	26	...	...	...	...	...	...	...	...	...
2	...	...	...	4.23	23	96	3.58	14	49	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	6.62	10	64	4.43	7	32	2.04	17	36	...	...	...	2.57	42	109	...	...	...
5	...	...	...	...	...	...	3.29	23	77	1.97	24	48	3.11	8	26	...	...	...
6	...	...	...	...	...	...	...	...	...	2.03	21	42	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.33	37	49
8	8.37	12	99	...	...	...	1.99	10	20	1.93	19	37	...	...	...	...	...	...
9	...	...	...	...	...	...	2.07	17	35	...	...	...	...	...	...	1.42	36	51
10	...	...	...	...	...	...	2.84	10	29	...	...	...	...	...	...	1.05	46	49
11	3.82	19	71	...	...	...	...	...	...	...	...	...	1.05	-	-	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	2.02	44	88	...	...	...	...	...	...
14	4.59	14	65	...	...	...	...	...	...	1.34	16	22	1.43	17	25	...	...	...
15	...	...	...	...	...	...	3.05	17	51	1.85	29	54	...	...	...	...	...	...
16	...	...	...	3.61	-	-	3.10	10	32	1.28	23	29	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	1.63	13	22	1.21	32	38
18	...	...	...	...	...	...	...	...	...	...	...	...	2.62	-	-	...	...	...
19	...	...	...	3.09	25	76	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	1.58	32	51	1.75	24	42	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	1.22	19	23	1.44	29	42
22	...	...	...	3.77	-	-	...	...	...	...	...	...	...	...	...	1.56	61	95
23	...	...	...	...	...	...	1.66	22	37	...	...	...	...	...	...	...	...	...
24	...	...	...	3.85	29	113	...	...	...	...	...	...	...	...	...	1.68	69	115
25	...	...	...	3.14	9	29	...	...	...	...	...	...	1.63	40	65	1.66	40	66
26	4.73	8	38	2.56	30	78	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	2.21	19	41	1.32	27	36	...	...	...
28	2.70	27	74	...	...	...	...	...	...	...	...	...	1.48	29	43	2.41	37	89
29	5.20	26	136	...	...	...	...	...	...	1.14	15	17	...	...	...	1.53	65	100
30	...	...	...	...	...	...	3.19	29	92	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean	5.15	17	78	3.59	21	71	2.71	16	44	1.73	24	43	1.80	24	43	1.53	45	69
No. of days used	7	7	7	8	6	6	11	11	11	10	10	10	11	9	9	10	10	10

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i	F	$\lambda+$	i
1	2.52	54	136	...	...	...	...	...	...	...	...	...	...	...	...	4.54	9	39
2	2.11	55	116	...	...	...	1.93	40	77	...	...	...	...	...	...	4.61	13	58
3	...	...	...	...	...	...	1.28	58	74	...	...	...	3.30	30	97	...	...	...
4	...	...	...	1.64	67	110	...	...	...	2.16	36	78	...	...	...	...	...	...
5	...	...	...	1.83	69	126	...	...	...	...	...	...	2.42	14	33	...	...	...
6	...	...	...	...	...	...	1.41	54	77	...	...	...	...	...	...	2.33	12	27
7	...	...	...	...	...	...	...	...	...	3.69	34	125	...	...	...	...	...	...
8	...	...	...	...	...	...	1.37	51	78	2.32	26	61	4.43	16	70	...	...	...
9	...	...	...	...	...	...	1.26	116	146	...	...	...	4.39	24	105	4.18	9	38
10	...	...	...	1.33	55	72	1.70	86	147	...	...	...	...	...	...	1.72	20	34
11	...	...	...	...	...	...	...	...	...	2.58	18	48	3.25	18	57	...	...	...
12	...	...	...	1.13	63	79	...	...	...	2.34	33	77	4.02	19	75	...	...	...
13	...	...	...	1.45	78	114	...	...	...	...	...	...	...	...	...	3.08	10	30
14	...	...	...	...	...	...	2.44	81	198	4.68	14	65	...	...	...	4.17	-	-
15	...	...	...	...	...	...	2.11	55	116	2.84	39	111	...	...	...	0.86	55	47
16	...	...	...	1.86	57	106	1.73	53	93	...	...	...	4.77	13	64	...	...	...
17	...	...	...	1.82	56	101	...	...	...	...	...	...	...	...	...	4.01	19	75
18	...	...	...	...	...	...	1.62	64	103	...	...	...	...	...	...	...	...	...
19	0.87	72	63	1.55	80	124	...	...	...	...	...	...	3.59	13	46	...	...	...
20	3.07	59	182	1.62	74	120	...	...	...	...	...	...	...	...	...	5.22	20	102
21	...	...	...	...	...	...	...	...	...	3.77	37	141	...	...	...	...	...	...
22	2.85	50	143	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	2.49	38	94	1.62	73	118	...	...	...	...	...	...	4.57	14	62	7.00	6	39
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5.05	10	48
25	...	...	...	2.14	48	104	...	...	...	...	...	...	...	...	...	...	...	...
26	1.71	58	99	2.63	56	148	...	...	...	4.15	-	-	7.31	4	29	...	...	...
27	1.77	53	94	2.15	39	85	1.84	40	75	6.19	-	-	...	...	...	...	...	...
28	1.79	61	109	...	...	...	...	...	...	3.83	18	70	...	...	...	5.45	16	87
29	...	...	...	...	...	...	3.97	34	133	...	...	...	3.56	19	68	...	...	...
30	1.42	49	70	...	...	...	...	...	...	...	...	...	2.74	19	51	3.80	17	66
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5.74	12	70
Mean	2.06	55	111	1.75	63	108	1.89	61	110	3.50	28	86	4.03	17	63	4.12	16	54
No. of days used	10	10	10	13	13	13	12	12	12	11	9	9	12	12	12	15	14	14
Year: Mean										2.78	33	73						
No. of days used										130	124	124						

ELECTRICAL CHARACTER OF EACH DAY AND APPROXIMATE DURATION OF NEGATIVE POTENTIAL GRADIENT

131

182 KEW OBSERVATORY

1943

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient
		hr.		hr.		hr.		hr.		hr.		hr.
1	2	5.0	2	3.3	0	...	0	...	1	2.8	1	1.5
2	1	0.2	1	0.4	1	0.4	1	1.6	1	2.2	2	4.3
3	0	...	1	0.4	1	0.2	0	...	1	0.3	1	2.0
4	0	...	0	...	1	0.7	0	...	0	...	0	...
5	0	...	1	0.4	1	2.3	0	...	0	...	0	...
6	2	17.8	1	1.0	1	2.1	0	...	1	0.3	1	0.1
7	2	19.8	0	...	1	0.5	2	3.8	1	0.5	1	0.5
8	1	1.7	0	...	0	...	0	...	2	6.2	0	...
9	0	...	2	9.0	0	...	1	0.1	2	3.2	0	...
10	2	5.1	1	2.4	0	...	0	...	2	16.0	0	...
11	2	4.5	0	...	1	0.2	0	...	0	...	0	...
12	2	7.7	0	...	1	0.1	1	0.1	1	0.3	0	...
13	1	1.2	0	...	0	...	0	...	1	0.4	1	1.4
14	2	8.8	0	...	2	5.3	0	...	1	0.1	1	2.7
15	1	1.9	1	1.2	1	1.3	0	...	0	...	1	2.1
16	1	0.7	1	0.1	0	...	1	0.8	0	...	2	3.3
17	0	...	1	0.2	1	0.1	0	...	0	...	0	...
18	0	...	0	...	0	...	0	...	1	0.1	1	0.7
19	0	...	1	0.1	1	1.1	1	1.7	0	...	0	...
20	1	2.6	0	...	0	...	0	...	0	...	0	...
21	1	1.6	0	...	1	1.3	1	0.2	0	...	0	...
22	1	1.5	0	...	1	0.3	1	1.3	1	0.4	0	...
23	1	1.6	0	...	0	...	2	7.8	0	...	0	...
24	1	0.4	0	...	1	0.5	1	0.3	2	11.5	0	...
25	1	2.0	1	1.4	2	4.8	1	0.7	1	1.4	0	...
26	0	...	0	...	1	2.1	0	...	0	...	0	...
27	0	...	0	...	1	0.9	0	...	0	...	0	...
28	1	0.5	0	...	0	...	1	0.8	0	...	0	...
29	2	3.4			1	0.5	0	...	0	...	0	...
30	2	7.5			0	...	1	1.1	1	0.8	0	...
31	2	11.0			0	...			1	0.4		
Total	-	106.5	-	19.9	-	24.7	-	20.3	-	46.9	-	18.6
No. of days used	-	31	-	28	-	31	-	30	-	31	-	30
Mean	-	3.4	-	0.7	-	0.8	-	0.7	-	1.5	-	0.6

	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient
		hr.		hr.		hr.		hr.		hr.		hr.
1	0	...	1	0.9	1	0.7	1	0.1	1	0.5	1	0.3
2	0	...	0	...	1	0.9	0	...	1	0.3	2	3.0
3	0	...	0	...	0	...	0	...	0	...	1	1.5
4	0	...	0	...	0	...	0	...	0	...	0	...
5	0	...	1	1.0	0	...	0	...	1	0.1	0	...
6	1	2.9	1	0.8	0	...	1	0.3	1	0.6	0	...
7	1	1.8	1	0.1	0	...	1	1.6	0	...	1	2.3
8	1	2.6	0	...	0	...	0	...	0	...	1	1.2
9	0	...	0	...	1	2.8	1	0.1	1	0.6	1	0.9
10	1	0.1	0	...	1	0.7	0	...	0	...	1	1.6
11	1	1.0	0	...	1	1.5	0	...	1	0.5	1	2.3
12	1	0.1	0	...	1	1.6	0	...	1	0.1	1	0.1
13	1	0.1	0	...	1	0.4	1	0.1	2	6.5	1	0.1
14	1	0.2	0	...	1	0.4	1	0.8	2	5.8	2	3.8
15	0	...	0	...	1	1.5	0	...	2	3.8	0	...
16	0	...	0	...	1	0.1	0	...	0	...	1	1.4
17	0	...	0	...	0	...	2	6.5	1	2.3	1	0.3
18	1	0.6	0	...	0	...	2	3.3	1	1.6	2	4.7
19	0	...	0	...	1	0.3	2	8.3	2	8.3	2	7.0
20	1	0.3	0	...	0	...	1	1.2	1	1.7	0	...
21	2	14.4	1	0.3	1	0.3	1	2.9	0	...	2	4.6
22	1	2.9	1	0.1	1	0.3	2	3.7	2	4.2	0	...
23	0	...	1	2.1	0	...	1	1.5	1	1.2	0	...
24	1	0.4	0	...	1	0.4	1	0.1	1	1.9	0	...
25	0	...	1	0.8	1	1.8	1	1.6	1	0.6	0	...
26	0	...	2	5.2	0	...	1	0.1	0	...	1	0.1
27	0	...	0	...	0	...	1	0.1	1	2.6	0	...
28	0	...	0	...	1	2.9	0	...	1	1.0	0	...
29	0	...	1	0.2	0	...	0	...	1	0.4	0	...
30	0	...	1	0.1	0	...	0	...	1	1.5	0	...
31	1	1.2	1	0.5			0	...			1	2.7
Total	-	28.6	-	12.1	-	16.6	-	32.3	-	46.1	-	37.9
No. of days used	-	31	-	31	-	30	-	31	-	30	-	31
Mean	-	0.9	-	0.4	-	0.6	-	1.0	-	1.5	-	1.2

Annual values: Character 0 1 2
 No. of days used 173 154 38

Duration: Total 410.5 hr.
 No. of days 365
 Mean 1.12 hr.

POTENTIAL GRADIENT (reduced to level surface, Paddock site)
Kelvin electrograph standardized by Wilson readings, underground laboratory
Mean values for periods of sixty minutes between exact hours, G.M.T.

183 KEW OBSERVATORY

1943

	JANUARY, factor 4.31				FEBRUARY, factor 4.38				MARCH, factor 4.34			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	<i>volts per metre</i>											
1	250	485	375	100	165	660	125	Z+	315	645	290	465
2	235	575	250	365	265	750	445	965	165	330	365	175
3	325	525	815	325	65	595	370	825	290	115	40	125
4	165	750	615	835	535	800	405	545	125	330	215	340
5	525	285	385	400	610	570	40	180	365	100	390	200
6	-575	Z-	-400	765	40	-75	510	1015	-25	265	330	330
7	-415	-175	-75	-200	660	165	445	710	190	115	50	100
8	165	735	725	785	470	620	190	190	330	455	215	465
9	175	365	450	315	-1105	-255	-25	395	290	670	215	480
10	-400	365	550	565	205	595	-430	305	330	605	290	315
11	Z-	425	400	365	345	675	380	405	150	540	150	355
12	-25	65	335	-125	205	230	165	370	265	830	65	200
13	275	800	535	475	205	405	255	445	275	340	140	175
14	Z-	-50	500	935	180	190	280	430	100	-90	315	175
15	365	-25	475	750	115	205	Z-	445	-65	300	680	250
16	600	650	415	525	280	535	330	330	250	125	330	315
17	200	475	525	675	315	840	445	215	290	490	680	240
18	775	615	725	700	265	355	315	180	200	465	455	150
19	450	375	335	615	215	785	290	535	150	125	300	140
20	235	485	315	85	405	305	485	370	150	390	200	430
21	175	625	500	-350	700	660	370	445	300	365	380	140
22	185	575	325	235	215	405	445	430	90	480	330	275
23	50	425	385	385	115	265	370	420	190	265	175	190
24	275	1435	575	465	280	610	370	420	115	330	380	225
25	185	325	-225	500	305	355	330	510	-240	140	265	695
26	600	725	485	675	315	510	240	535	390	40	330	615
27	575	725	450	500	280	545	255	510	340	-140	330	880
28	75	315	285	200	315	395	280	405	515	355	165	655
29	-65	650	525	675					300	430	175	150
30	-600	215	650	Z+					140	365	355	330
31	225	-150	100	175					100	275	125	190
(a)	308	538	464	496	299	501	325	464	240	354	281	315
(b)	229	481	413	394	257	455	291	465	206	324	281	315
Mean	(a) 451		(b) 379		(a) 397		(b) 367		(a) 297		(b) 281	

	APRIL, factor 4.34				MAY, factor 4.39				JUNE, factor 4.40			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	<i>volts per metre</i>											
1	100	175	315	300	215	375	85	85	115	240	150	200
2	90	75	330	415	65	315	135	265	175	250	Z-	175
3	215	380	290	140	50	215	350	335	190	115	175	225
4	140	300	165	355	115	435	275	315	200	315	215	150
5	275	455	190	215	175	250	250	335	150	290	125	225
6	175	290	190	275	115	165	115	65	140	165	140	175
7	190	340	-50	430	200	265	225	235	175	275	150	225
8	250	315	190	275	-275	125	75	135	100	200	90	290
9	90	240	75	380	25	185	125	250	90	250	150	175
10	125	250	140	390	-225	-725	-425	165	140	215	115	140
11	190	150	150	355	325	365	135	300	175	190	125	190
12	125	175	75	355	85	85	125	265	165	240	65	175
13	290	340	215	505	85	235	215	250	140	200	50	215
14	390	580	140	330	290	265	150	250	200	225	115	290
15	175	340	165	300	85	400	200	100	200	240	Z+	225
16	315	540	140	190	165	290	100	85	240	-40	40	315
17	140	365	115	225	75	265	165	75	190	315	140	150
18	165	315	125	175	135	235	265	75	140	175	100	150
19	150	275	-415	275	175	150	250	165	90	200	150	175
20	290	645	175	275	100	225	165	125	100	250	190	225
21	190	330	250	225	85	225	115	75	225	265	150	150
22	250	100	50	250	115	325	225	135	240	315	165	290
23	290	240	140	Z-	175	235	100	165	100	250	115	215
24	165	250	225	290	100	-250	Z±	-65	215	315	165	150
25	40	215	140	190	50	315	150	215	175	250	150	200
26	115	200	150	165	185	325	85	150	125	250	140	140
27	215	290	225	165	115	200	150	125	225	250	200	190
28	165	240	200	290	135	375	150	125	190	375	240	225
29	150	580	115	225	65	225	125	175	165	250	150	225
30	225	330	-125	175	200	75	125	100	150	300	250	100
31					85	265	150	225				
(a)	189	311	173	281	131	256	165	179	164	247	143	199
(b)	186	313	136	281	106	223	145	179	163	237	143	199
Mean	(a) 239		(b) 229		(a) 183		(b) 163		(a) 188		(b) 185	

The potential gradient is reckoned as positive if the potential increases upwards. For indeterminate potential gradient the following notation is used: Z+, indeterminate, positive value; Z-, indeterminate, negative value; Z±, indeterminate, in magnitude and sign.

(a) Mean of all positive readings.

(b) Mean from all complete days using both positive and negative readings.

POTENTIAL GRADIENT (reduced to level surface, Paddock site)
Kelvin electrograph standardized by Wilson readings, underground laboratory
Mean values for periods of sixty minutes between exact hours, G.M.T.

133

183 KEW OBSERVATORY

1943

	JULY, factor 4.48				AUGUST, factor 4.30				SEPTEMBER, factor 4.36			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
					<i>volts per metre</i>							
1	175	400	265	250	Z+	200	175	200	140	175	75	150
2	215	250	215	215	175	275	150	235	215	445	190	140
3	50	175	175	75	150	325	200	135	215	265	115	230
4	100	175	50	100	125	350	160	300	140	290	140	230
5	75	300	150	100	200	325	185	235	115	200	150	230
6	165	250	Z-	215	225	335	185	150	230	290	150	280
7	275	240	Z±	1000	200	310	160	200	200	315	230	290
8	40	275	Z±	225	150	310	150	50	215	340	140	175
9	190	325	275	240	75	235	160	160	115	315	125	-255
10	200	325	215	200	200	260	150	175	115	175	175	280
11	40	90	100	25	175	235	110	175	Z±	455	165	140
12	100	265	190	250	160	500	125	200	165	100	65	Z±
13	200	275	50	240	185	125	150	175	340	530	330	340
14	215	325	140	275	150	285	185	125	390	340	240	140
15	200	265	100	250	185	325	125	210	-115	280	215	215
16	200	425	150	90	225	310	200	175	90	165	90	230
17	100	140	225	200	150	125	150	260	150	290	150	150
18	100	100	75	125	375	250	210	160	190	380	150	255
19	190	190	100	140	250	375	160	300	125	140	255	215
20	190	325	265	240	160	300	160	185	230	150	190	315
21	90	300	50	-200	110	235	285	410	230	355	230	330
22	-90	350	240	300	250	260	150	225	125	420	230	330
23	200	425	240	300	200	310	175	350	165	580	305	560
24	100	375	165	125	300	550	150	285	230	380	230	330
25	100	215	140	125	Z±	250	225	225	100	340	150	305
26	115	250	175	200	185	-500	225	350	140	455	240	330
27	175	375	200	200	185	400	210	425	125	505	200	445
28	240	240	175	165	310	250	210	175	-40	190	50	215
29	190	375	125	115	175	225	135	200	175	405	405	280
30	150	315	140	300	50	285	210	225	315	330	230	455
31	175	215	125	250	200	425	185	135				
(a)	152	276	161	218	189	298	175	219	185	320	187	271
(b)	142	278	161	175	189	276	173	220	167	323	192	257
Mean	(a) 202		(b) 189		(a) 220		(b) 215		(a) 241		(b) 235	

	OCTOBER, factor 4.36				NOVEMBER, factor 4.41				DECEMBER, factor 4.48			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
					<i>volts per metre</i>							
1	340	405	305	290	225	240	205	105	300	630	490	455
2	140	390	200	505	335	130	245	450	300	-480	430	605
3	355	520	200	545	220	305	320	420	175	720	100	205
4	230	255	215	190	230	220	75	155	240	630	275	555
5	140	200	140	240	105	165	280	460	290	430	165	253
6	100	200	230	200	140	130	255	410	240	250	240	355
7	100	40	315	90	255	395	345	640	250	745	15	290
8	150	330	240	280	385	640	450	500	490	480	50	565
9	100	355	215	165	335	385	485	-50	15	300	405	150
10	125	215	165	280	190	190	305	450	150	-250	125	530
11	420	420	330	175	115	510	335	550	150	605	620	415
12	165	230	255	340	245	305	370	335	165	365	275	430
13	150	380	265	190	-190	-295	410	320	200	705	250	745
14	15	190	470	330	305	500	-40	180	340	590	415	330
15	230	340	280	420	-180	190	305	65	470	510	135	115
16	255	305	265	230	360	575	450	410	95	215	40	440
17	140	-630	305	Z±	40	220	460	25	510	900	400	215
18	545	255	380	-100	90	335	335	205	-105	135	230	65
19	-125	140	305	125	-65	155	435	-295	-295	335	455	550
20	175	445	290	380	155	820	550	1410	270	565	495	575
21	100	255	355	520	1625	475	820	280	160	270	-320	535
22	330	430	340	-330	-105	165	155	370	160	415	350	695
23	315	100	430	580	450	550	450	155	605	390	685	415
24	770	355	255	330	-25	420	410	385	400	735	480	525
25	660	430	495	25	165	450	305	540	510	750	790	565
26	215	605	355	100	625	590	755	640	175	430	310	390
27	760	935	670	455	410	-105	410	360	230	430	495	655
28	605	555	340	355	115	180	105	460	320	670	535	430
29	150	265	405	305	255	-25	335	410	215	510	670	525
30	200	280	200	405	130	230	280	295	350	400	400	480
31	340	90	290	390								
(a)	277	331	307	301	305	351	367	392	283	510	363	435
(b)	269	331	307	267	236	301	353	355	252	454	340	406
Mean	(a) 304		(b) 293		(a) 354		(b) 311		(a) 398		(b) 363	

The factor used for converting the potential at the collector to potential gradient in volts per metre in the open is given for each month.				(a)	227	358	259	314
				(b)	200	333	244	293
				Annual means	(a) 289		(b) 267	

Selected quiet days

1943

	Hour G.M.T.																								Non-cyclic change†	Mean	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
	volts per metre												+10	+30	+35	+56	+59	+30	+50	+58	+81	+82	+74	+6		-66	522
Jan.	-80	-79	-140	-170	-173	-128	-92	-41	+37	+104	+107	+84	-9	-8	-20	+4	+4	+49	+42	+59	+42	+36	-21	-38		-20	379
Feb.	-66	-88	-90	-95	-84	-31	-11	+37	+69	+97	+77	+45	-17	-34	-51	-60	-29	+4	+30	+42	+52	+2	-36	-63		-6	285
Mar.	-75	-70	-50	-80	-49	-6	+45	+81	+128	+142	+85	+12	-38	-59	-65	-52	-51	-57	-21	+14	+57	+18	-13	-28		+11	223
Apr.	-33	-22	-22	-16	+10	+42	+98	+130	+99	+41	+1	-30	-13	-20	-27	-31	-27	-26	-19	-16	-22	-34	-54	-56		+14	182
May	-51	-37	-31	-9	+9	+64	+97	+129	+92	+69	+20	-7	-13	-20	-27	-31	-27	-26	-19	-16	-22	-34	-54	-56		+14	182
June	-20	-29	-30	-20	+10	+50	+70	+84	+86	+33	+1	-28	-31	-42	-38	-31	-26	-23	-17	-13	+8	+12	+2	-10		-8	187
July	-27	-28	-23	-12	+1	+40	+73	+103	+89	+65	+14	-3	-3	-12	-26	-33	-41	-53	-49	-42	0	-5	+2	-29		+21	192
Aug.	-22	-43	-31	-32	-5	+26	+85	+142	+126	+75	+3	-17	-29	-42	-42	-54	-49	-45	-36	-6	-8	-8	+10	-1		-5	207
Sept.	-42	-42	-45	-34	-11	+6	+49	+103	+101	+67	+9	-33	-59	-63	-59	-53	-39	-9	+30	+52	+50	+32	+8	-18		+14	233
Oct.	-27	-29	-41	-46	-37	-52	-39	+12	+23	+26	-23	-35	-12	-37	-32	-8	+8	+40	+62	+60	+76	+81	+42	-12		+22	266
Nov.	-77	-88	-99	-114	-82	-69	+8	+21	+4	+41	+78	+52	+4	-16	-16	+21	+71	+59	+49	+67	+82	+55	-22	-31		...	587
Dec.	-60	-120	-134	-112	-107	-32	+10	+49	+88	+107	+30	+7	+4	-4	-11	-33	+6	+23	+56	+41	+58	+79	+63	-9		+21	413
Year	-48	-56	-61	-62	-43	-7	+33	+71	+78	+72	+33	+4	-16	-26	-29	-23	-9	-1	+15	+26	+40	+29	+5	-24		...	306
Winter	-71	-94	-116	-123	-111	-65	-21	+19	+50	+87	+73	+47	+2	+1	-3	+12	+35	+40	+49	+56	+66	+63	+23	-18		...	475
Equinox	-44	-41	-40	-44	-22	-3	+38	+81	+88	+69	+18	-21	-31	-48	-52	-43	-28	-5	+25	+42	+59	+33	0	-30		...	252
Summer	-30	-34	-29	-18	+4	+45	+81	+115	+98	+61	+9	-14	-19	-29	-33	-37	-36	-37	-30	-19	-5	-9	-10	-24		...	192

Equinox: March, April,
Summer: May to August

[†] See p. 10, *Observatories' Year Book*, 1938.

185 KEW OBSERVATORY

Complete days only

1943

	Hour G.M.T.																								Mean	No. of days used	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
	milligrams per cubic metre																										
Jan.	0.12	0.11	0.09	0.06	0.08	0.12	0.15	0.22	0.26	0.27	0.25	0.27	0.20	0.20	0.22	0.24	0.27	0.33	0.32	0.30	0.28	0.22	0.19	0.16	0.20	31	
Feb.	0.20	0.15	0.14	0.13	0.13	0.17	0.23	0.36	0.36	0.36	0.27	0.22	0.19	0.20	0.20	0.23	0.28	0.32	0.36	0.36	0.31	0.29	0.25	0.22	0.25	28	
Mar.	0.21	0.17	0.15	0.13	0.13	0.19	0.32	0.43	0.41	0.34	0.28	0.24	0.21	0.15	0.15	0.17	0.23	0.29	0.33	0.36	0.38	0.35	0.30	0.24	0.26	31	
Apr.	0.01	0.02	0.03	0.03	0.05	0.10	0.14	0.14	0.08	0.04	0.03	0.02	0.03	0.02	0.03	0.04	0.05	0.07	0.07	0.06	0.04	0.03	0.01		0.05	30	
May	0.02	0.03	0.03	0.05	0.07	0.09	0.11	0.10	0.05	0.03	0.03	0.03	0.03	0.03	0.04	0.02	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.02	0.04	31	
June	0.00	0.00	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	30	
July	0.01	0.01	0.01	0.02	0.02	0.04	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.00	0.01	0.01	31	
Aug.	0.02	0.01	0.02	0.02	0.03	0.02	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	31	
Sept.	0.08	0.08	0.09	0.08	0.09	0.11	0.13	0.14	0.12	0.09	0.08	0.06	0.03	0.03	0.04	0.05	0.07	0.11	0.14	0.16	0.14	0.14	0.10	0.09	0.09	30	
Oct.	0.20	0.18	0.15	0.15	0.16	0.16	0.21	0.26	0.27	0.24	0.24	0.19	0.15	0.17	0.19	0.24	0.28	0.33	0.39	0.37	0.32	0.27	0.25	0.23	0.23	31	
Nov.	0.11	0.13	0.12	0.12	0.11	0.14	0.21	0.29	0.31	0.28	0.24	0.20	0.19	0.21	0.24	0.30	0.35	0.36	0.37	0.39	0.33	0.23	0.18	0.15	0.23	30	
Dec.	0.11	0.10	0.09	0.10	0.11	0.15	0.25	0.34	0.42	0.45	0.38	0.35	0.32	0.30	0.29	0.33	0.36	0.37	0.37	0.34	0.29	0.23	0.19	0.17	0.27	31	
Year	0.09	0.08	0.08	0.07	0.08	0.11	0.15	0.20	0.19	0.18	0.15	0.13	0.11	0.1	0.1	0.12	0.14	0.16	0.19	0.20	0.20	0.18	0.15	0.13	0.11	0.14	365
Winter	0.13	0.12	0.11	0.10	0.11	0.15	0.21	0.30	0.34	0.34	0.29	0.25	0.23	0.23	0.24	0.27	0.31	0.35	0.35	0.35	0.30	0.24	0.20	0.17	0.24	120	
Spring	0.11	0.09	0.09	0.08	0.09	0.15	0.23	0.29	0.25	0.19	0.15	0.13	0.12	0.09	0.09	0.11	0.14	0.18	0.20	0.21	0.22	0.19	0.17	0.13	0.15	61	
Autumn	0.14	0.13	0.12	0.11	0.13	0.13	0.17	0.20	0.19	0.17	0.16	0.13	0.09	0.10	0.11	0.15	0.17	0.22	0.27	0.27	0.23	0.21	0.17	0.16	0.16	61	
Summer	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.05	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	123	